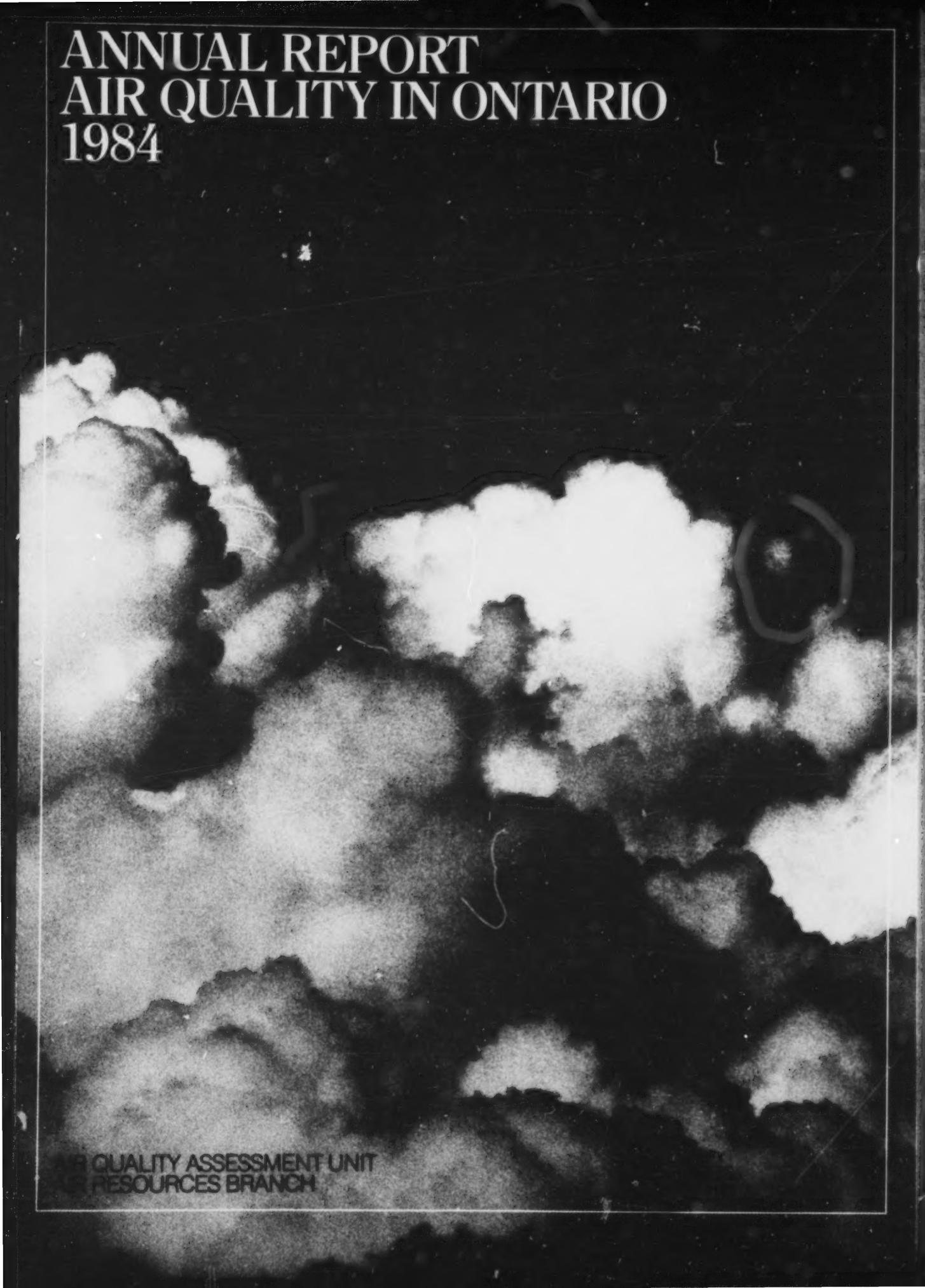
ANNUAL REPORT
AIR QUALITY IN ONTARIO
1984



AIR QUALITY ASSESSMENT UNIT
AIR RESOURCES BRANCH

ANNUAL REPORT — AIR QUALITY IN ONTARIO — 1984

... being a review of the Ministry of the Environment air quality monitoring program for 1984.

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INTRODUCTION

This report describes the 1984 Ontario air quality monitoring program including a summary of the measurements of gases and particulate matter during the year. It is intended for use in conjunction with an Appendix which appears in a separate volume.

For each pollutant, the following are discussed: characteristics of pollutant, effects, Ontario criteria (if any), sources, method of monitoring, locations (and frequency) of sampling, and summary of sampling results.

For each pollutant, tables provide the location of stations and supply sample distribution information including means, maxima and the number of exceedances of the Ontario criteria.

The entire continuous (hourly) network is summarized in Appendix Table A-1. This table gives station name, numerical identifier, and pollutants measured. Letter codes indicate whether data are telemetered or chart-read. The column headings for pollutants are as follows:

SO_2 sulphur dicxide
COH soiling index (coefficient of haze)
CO carbon monoxide
O_3 ozone
NO_2 nitrogen dioxide
NO nitric oxide
NOx total nitrogen oxides
THC total hydrocarbons
RHC reactive (non-methane) hydrocarbons
TRS total reduced sulphur
API air pollution index
WS1 wind speed — level 1
WD1 wind direction — level 1
WS2 wind speed — level 2
WD2 wind direction — level 2
WS3 wind speed — level 3
WD3 wind direction — level 3
TEM temperature — level 1
DT1 temperature difference (level 2 – level 1)
DT2 temperature difference (level 3 – level 1)

Section A of this report describes each of the gaseous pollutants in sequence. Section B deals with the Air Pollution Index.

The particulate (daily) network is summarized in Appendix Table A-2. This table gives station name, numerical identifier, and pollutants measured. Numerals indicate the monitoring cycle frequency in days. Some additional codes are defined in the key at the top of the table. The column headings for pollutants are as follows:

TSP total suspended particulate
Cd Cadmium
Co Cobalt
Cr Chromium
Cu Copper
Fe Iron
Mn Manganese
Ni Nickel
PbA Lead (analysed by Atomic Absorption)
PbX Lead (analysed by X-Ray Spectroscopy)
V Vanadium
NO_3 Nitrate
SO_4 Sulphate

Section C describes each of these particulate pollutants under the headings of TSP, Lead, Trace Metals, Nitrate and Sulphate.

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GLOSSARY

criterion — a recommended maximum ambient air exposure (based on effects)

detection limit — the minimum air concentration of a pollutant that can be determined by an analytical method

geometric mean — calculated by taking the nth root of the product of all (n) values in a data set
— provides a better indication than arithmetic mean of central tendency for a small data set with extreme values

percentile value — the percentage of the data set that lies below the stated value
— for example, if the 70 percentile value is 0.10 ppm, then 70% of the data are below 0.10 ppm

primary pollutant — a pollutant which is directly emitted to the atmosphere

secondary pollutant — a pollutant which is formed from other pollutants present in the atmosphere

ABBREVIATIONS

ppb — parts (of pollutant) per billion (parts of air)

ppm — parts (of pollutant) per million (parts of air)

ug/m³ — micrograms (of pollutant) per cubic metre (of air)

SECTION A POLLUTANTS MEASURED BY CONTINUOUS MONITORING (HOURLY DATA)

SO_2

SULPHUR DIOXIDE

1.1 Characteristics

Colourless gas. Strong, pungent odour over 0.5 ppm.

1.2 Effects

1 hour average

less than .16 ppm	— no known effects
.25 ppm	— injurious to sensitive species of vegetation
.34 ppm	— odorous, increasing vegetation damage
greater than 2.00 ppm	— increasing sensitivity of asthmatics and bronchitics

1.3 Ontario Criteria

.25 ppm (1 hour)
.10 ppm (24 hours)
.02 ppm (1 year)

Limiting effect — Health, vegetation.

1.4 Sources

80% of the SO_2 emitted in Ontario originates from non-ferrous smelters and electric utilities.

The rest comes from industrial sources including iron ore smelters, petroleum refineries, pulp and paper mills and area sources including vehicles and residential, commercial and industrial heating.

1.5 Method of Monitoring

Fluorescent excitation of SO_2 by pulsed ultra-violet radiation.

1.6 Locations of Monitoring

The Appendix provides a description of the provincial SO_2 network (Table A-1).

SO_2 monitoring was carried out at 88 locations in 1984.

1.7 Monitoring Results

The distribution by percentile of the hourly data; the mean; and the maximum one hour and 24 hour values are provided in the Appendix (Table A-3). Also given are the number of exceedances of the sulphur dioxide criteria (see Section 1.3).

The lowest levels measured in the province were Thunder Bay Hospital where the hourly SO_2 never exceeded .02 ppm.

The greatest number of exceedances of the one hour criterion occurred at Balmertown (sewage treatment plant) and the highest annual mean was measured at Hamilton (North Park).

There were a total of 20 stations which exceeded the hourly criterion at least once and six which exceeded the 24 hour criterion. No station exceeded the annual criterion. (See also Table 1).

COH

SOILING INDEX

2.1 Characteristics

A relative measure of suspended particulate matter of size most likely to reach the lungs (diameter less than 5–10 microns). Determined by the amount of soiling caused by air flow on a filter medium.

2.2 Effects

1 hour average

less than 2.0 COH units	— no known effects
2.0 COH units	— decrease in visibility
4.0 COH units	— soiling evident
6.0 COH units	— increasing sensitivity of asthmatics and bronchitics

2.3 Ontario Criteria

1.0 COH units/1000 feet (24 hours)
0.5 COH units/1000 feet (1 year)

Limiting effect — Health.

2.4 Sources

Industrial processes which include combustion, incineration, construction, mining, metal smelting and processing, grinding.

Natural sources include wind-blown soil, forest fires, ocean spray, volcanic activity.

2.5 Method of Monitoring

Continuous paper tape sampler with sampling inlet and flow rate regulated to favour small particles.

COH is determined by drawing a known volume of air through a portion of tape and then measuring the reduction in the light transmitted relative to a clean section of tape.

2.6 Locations of Monitoring

The Appendix provides a description of the provincial COH network (Table A-1).

Soiling Index was measured at 41 locations in 1984.

2.7 Monitoring Results

The distribution by percentile of the hourly data; the mean; the maximum one hour and 24 hour values; and the number of exceedances of the COH criteria (see Section 2.3) are provided in the Appendix (Table A-4).

The lowest levels measured in the province were at Coniston (backup) in the Sudbury Basin where the COH averaged 0.13 units.

The greatest number of exceedances of the 24 hour criterion occurred at Hamilton (North Park) and the highest annual mean was at North Park as well.

There were a total of 24 stations which exceeded the 24 hour criterion at least once and five which exceeded the one year criterion. (See also Table 1).

TRS

TOTAL REDUCED SULPHUR

3.1 Characteristics

Primarily hydrogen sulfide (rotten egg odour). Also methyl mercaptans (rotten cabbage odour over 5 ppb).

3.2 Effects

1 hour average

less than 10 ppb	— no known effects
10 ppb	— odour threshold
27 ppb	— extremely odorous
1,000 ppb	— sensitive individuals may suffer nausea and headache due to severe odour

3.3 Ontario Criteria

Hydrogen Sulfide — 27 ppb (1 hour) (provisional guideline)
Methyl mercaptans — 10 ppb (1 hour).

Limiting Effect — Odour

3.4 Sources

Industrial — pulp and paper mills, refineries. Natural — swamps, bogs, marshes.

3.5 Method of Monitoring

Reduced sulphur compounds are oxidized to SO_2 followed by fluorescent excitation by ultra-violet radiation.

3.6 Locations of Monitoring

The Appendix provides a description of the provincial TRS network (Table A-1).

TRS monitoring was carried out at 31 locations in 1984.

3.7 Monitoring Results

The distribution by percentile of the hourly data; the mean; and the one hour and 24 hour maxima are provided in the Appendix (Table A-5).

The lowest levels measured in the province were at Science North in Sudbury. The highest annual mean occurred at Boise Cascade in Fort Frances. The greatest value measured was 254 ppb at Thorold.

All stations monitoring the pulp and paper industry exceeded the Ontario criterion (provisional guideline of H_2S for the pulp and paper industry) of 27 ppb. (See also Table 1).

CO

CARBON MONOXIDE

4.1 Characteristics

Colourless, odourless.

4.2 Effects

1 hour average

less than 30 ppm	— no known effects
30 ppm	— increased cardio-vascular symptoms on smokers with heart disease
50 ppm	— increasing cardio-vascular symptoms on non-smokers with heart disease. Some visual impairment

4.3 Ontario Criteria

30 ppm (1 hour)
13 ppm (8 hours)

Limiting effect — Health.

4.4 Sources

Primary source (about 80%) is motor vehicles. A secondary source is fossil fuel combustion for building, heating and commercial/industrial operations.

4.5 Method of Monitoring

Non-dispersive infra-red photometry based on the preferential absorption of infra-red radiation by CO.

4.6 Locations of Monitoring

The Appendix provides a description of the provincial CO network (Table A-1).

CO was monitored at 26 stations in 1984.

4.7 Monitoring Results

The distribution by percentile of the hourly data; the mean; and the maximum one hour and eight hour values are given in the Appendix (Table A-6).

The lowest levels measured in the province were at Centennial Park in Sarnia; the highest mean was at the Mission (381 Yonge Street) in Toronto. The highest measured one hour and eight hour values were also at the Mission.

No station monitored CO values above the Ontario one hour criterion of 30 ppm; however the Mission monitor registered values in excess of the eight hour criterion on 10 occasions. (See also Table 1).

THC/RHC

HYDROCARBONS

5.1 Characteristics

Primarily methane (colourless, odourless) which is present at about 1.5 ppm in the ambient atmosphere. Non-methane hydrocarbons (or reactive hydrocarbons) are usually present at much lower levels. This fraction reacts with nitrogen oxides in the presence of sunlight to form ozone.

5.2 Effects

No known effects at ambient levels.

5.3 Ontario Criteria

None.

5.4 Source

Natural sources include trees and other vegetation and decay of animal and plant material.

Anthropogenic sources include motor vehicles, gasoline storage tanks, petroleum and chemical industries.

5.5 Method of Monitoring

Calibrated flame ionization detector.

5.6 Locations of Monitoring

The Appendix provides a description of the provincial THC/RHC network (Table A-1).

Hydrocarbon monitoring (total or reactive) was carried out at 18 locations in 1984.

5.7 Monitoring Results

The distribution by percentile of the hourly data; the mean; and the maximum one hour and 24 hour values are given in the Appendix (Tables A-7 and A-8).

The locations and values for the lowest, and highest means are given in Table 1. Hamilton (Barton/Wentworth) measured the highest maximum concentration of reactive hydrocarbon for the year.

The highest total hydrocarbon value for the year was measured at the Science Centre in North York.

NO_2

NITROGEN DIOXIDE

6.1 Characteristics

Brown gas. Pungent, irritating odour over .12 ppm.

Oxidation product of nitric oxide (NO) which is the primary NO_x emission. Reacts with hydrocarbons in sunlight to form ozone; and with water to form nitric acid, a component of acid rain.

6.2 Effects

1 hour average

less than .10 ppm	— no known effects
.10 ppm	— odour threshold
.25 ppm	— some increase in bronchial reactivity in asthmatics
.52 ppm	— increasing sensitivity of asthmatics and bronchitics

6.3 Ontario Criteria

.20 ppm (1 hour)
.10 ppm (24 hours)

Limiting effect — Health.

6.4 Sources

Anthropogenic — high temperature combustion processes including automobiles, power plants, incinerators and several chemical processes. In Ontario, transportation accounts for about 60% of total NO_x emissions.

Natural — lightning, soil bacteria.

6.5 Method of Monitoring

Based on the principle of chemiluminescence involving a gas phase reaction of NO with ozone. For NO_2 the sample stream is passed through a catalytic converter where NO_2 is reduced to NO.

6.6 Locations of Monitoring

The Appendix provides a description of the provincial NO_2 network (Table A-1).

NO_2 monitoring was carried out at 33 locations in 1984.

6.7 Monitoring Results

The distribution by percentile of the hourly data; the mean; and the maximum one hour and 24 hour values are provided in the Appendix (Table A-9). Also given are the number of exceedances of the nitrogen dioxide criteria (see Section 6.3).

The lowest levels measured in the province were at Hawkeye Lake where the arithmetic mean was .000 ppm.

The greatest number of exceedances of the one hour criterion occurred at Sudbury (Ash Street) and the highest annual mean was measured at Toronto (Mission).

There were a total of two stations which exceeded the one hour criterion at least once, but no stations exceeded the 24 hour criterion. (See also Table 1)

NO

NITRIC OXIDE

7.1 Characteristics

Colourless gas. Oxidizes to NO_2 in the presence of hydrocarbons and sunlight.

7.2 Effects

No known effects at ambient levels.

7.3 Ontario Criteria

None.

7.4 Sources

Same as for NO_2.

7.5 Method of Monitoring

Same as for NO_2.

7.6 Locations of Monitoring

Same as for NO_2.

7.7 Results of Monitoring

Long Point Provincial Park had the lowest mean; North York (Hwy. 401) the highest. (See Appendix Table A-10 for the data summaries).

NO_x

TOTAL NITROGEN OXIDES

8. NO_x is assumed to be the sum of NO_2 and NO concentrations in the atmosphere (in parts per million). Normally, this assumption is valid. (See Appendix Table A-11 for the data summaries).

O_3

OZONE

9.1 Characteristics

Colourless gas. Major component of photochemical oxidant compounds formed as the result of chemical reactions between nitrogen oxides and reactive hydrocarbons in the presence of sunlight.

9.2 Effects

1 hour average

less than 50 ppb	— no known effects
80 ppb	— injurious to many species of vegetation
120 ppb	— decreasing performance by athletes exercising heavily
200 ppb	— decrease in lung function in exercising subjects, eye irritation

9.3 Ontario Criteria

80 ppb (1 hour)

9.4 Sources

Ozone is produced by photochemical reactions and not directly emitted into the atmosphere. Since it is formed downwind of nitrogen oxide and hydrocarbon sources and capable of travelling long distances through the atmosphere, ozone is a major manifestation of the long range transport of air pollution. Its formation and transport are dependent on meteorological factors.

9.5 Method of Monitoring

An air sample reacts with ethylene to emit visible light (chemiluminescence) of intensity directly proportional to the ozone concentration.

9.6 Locations of Monitoring

The Appendix provides a description of the provincial O_3 network (Table A-1).

Ozone monitoring was carried out at 36 locations in 1984.

9.7 Monitoring Results

The distribution by percentile of the hourly data; the mean; and the maximum one hour and 24 hour values are provided in the Appendix (Table A-12). Also given are the number of exceedances of the ozone criterion (see Section 9.3).

The lowest levels measured in the province were at Peterboro (City Hall) where the arithmetic mean was 10.9 ppb.

The greatest number of exceedances of the one hour criterion occurred at Long Point Provincial Park which also recorded the highest mean concentration for the year.

There were a total of 31 stations which exceeded the criterion at least once. The highest measured concentration was 162 ppb at Burlington. (See also Table 1).

TABLE 1
HIGHLIGHTS OF CONTINUOUS MONITORING — 1984

Pollutant (Units)	Lowest Mean	Highest Mean	Most Criteria Exceedances 1 hour	24 hour	Number of Stations Exceeding Criteria 1 hr.	24 hr.	1 Yr.	Highest Measured Value (one hour)	Total Number of stations
SO_2 (ppm)	63022[1] (.000)[2]	29008 (.016)	61014 (50)	77201 (3)	20	6	0	77201 (0.99)	88
COH	77128 (0.13)	29008 (0.72)	n.a.	29008 (69)	n.a.	24	5	29025 (4.6)	41
TRS (ppb)	77203 (0.0)	62051 (5.2)	27052 (376)	n.a.	n.a.	n.a.	n.a.	27052 (254)	31
CO (ppm)	14064 (0.1)	31049 (3.6)	– (0)	n.a.	0	n.a.	n.a.	31049 (29)	26
RHC (ppm)	27037 (0.14)	12008 (0.40)	n.a.	n.a.	n.a.	n.a.	n.a.	29025 (5.9)	8
THC (ppm)	31104 (1.89)	15001 (2.89)	n.a.	n.a.	n.a.	n.a.	n.a.	34002 (18.7)	11
NO_2 (ppm)	63100 (.000)	31049 (.040)	77016 (3)	– (0)	2	0	n.a.	77016 (0.43)	33
NO_x (ppm)	63100 (.003)	34007 (.129)	n.a.	n.a.	n.a.	n.a.	n.a.	31049 (1.03)	33
NO (ppm)	22901 (.001)	34007 (.092)	n.a.	n.a.	n.a.	n.a.	n.a.	31049 (0.94)	33
O_3 (ppb)	59006 (10.9)	22901 (29.7)	22901 (152)	n.a.	31	n.a.	n.a.	44008 (162)	36

[1]Station Number (for location see Appendix Table A-1)
[2](Value)

SECTION B
THE ONTARIO AIR POLLUTION INDEX (API)

10.1 Characteristics

The API is the basis of an alert system to warn of deteriorating air quality and is derived from 24 hour running averages of sulphur dioxide and soiling index. Research studies have linked respiratory illness to high concentrations of sulphur dioxide and particulates.

10.2 Legislation

The Ontario Environmental Protection Act (1971) authorizes the Minister of the Environment to order any source not essential to public health or safety to curtail or cease its operations when air pollution levels which may be injurious to health occur.

10.3 Operation of the System

The API is computed each hour based on the past 24 hourly values for SO_2 and COH. If the index reaches a value of 32 (as for example when SO_2 = 0.1 ppm and COH = 1.0) and if the Duty Meteorologist predicts a continuation of adverse atmospheric conditions for at least six hours, an Air Pollution Advisory is issued. Owners of significant sources of pollution are advised to prepare for possible curtailment of operations.

If the index reaches 50, and if at least six hours of adverse atmospheric conditions are forecast, owners of major sources will be ordered to curtail operations. This is the First Alert Level.

A Second Alert is issued at an API of 75, and further curtailment may be ordered.

The Air Pollution Episode Threshold Level occurs at an API of 100. If atmospheric conditions are not expected to improve for at least six hours, owners of all sources not essential to public health or safety will be ordered to cease operations.

10.4 Air Pollution Index Levels (1970 – 1984)

A history of the Air Pollution Index over the 15 years of its operation is provided in Table 2.

TABLE 2
ONTARIO'S AIR POLLUTION INDEX

Date Started:			
	TORONTO	Mar. 23, 1970	
	HAMILTON	June 15, 1970	
	SUDBURY	Jan. 16, 1971	
	WINDSOR	Mar. 19, 1971	
	HAPPY VALLEY	May 13, 1971	(Closed Jan./75)
	WELLAND	Jan. 1, 1974	(Closed Oct./78)
	NIAGARA FALLS	Nov. 1, 1974	
	CONISTON	Feb. 18, 1975	
	NEW SUDBURY	Mar. 1, 1976	
	SARNIA	Dec. 1, 1977	
	ST. CATHARINES	Sep. 14, 1979	

YEAR	CITY	NUMBER OCCASIONS ≥ 32	NUMBER OCCASIONS ≥ 50	MAXIMUM INDEX	DATE OF MAXIMUM
1970	TORONTO	17	2	56	Oct. 8
	HAMILTON	2	1	56	Oct. 8
1971	TORONTO	19	1	52	Apr. 13
	HAMILTON	23	0	48	Oct. 21
	SUDBURY	26	3	87	Dec. 11
	WINDSOR	2	0	33	Nov. 10
	HAPPY VALLEY	20	7	64	Nov. 21
1972	TORONTO	2	0	45	Feb. 13
	HAMILTON	6	0	41	Feb. 13
	SUDBURY	7	1	79	June 12
	WINDSOR	9	1	53	Jan. 29
	HAPPY VALLEY	20	11	139	Mar. 23
1973	TORONTO	3	0	43	Oct. 24
	HAMILTON	2	0	34	Feb. 14
	SUDBURY	0	0	26	Mar. 14
	WINDSOR	7	0	44	Feb. 19
	HAPPY VALLEY	19	10	94	Aug. 21
1974	TORONTO	3	1	50	Oct. 29
	HAMILTON	11	0	44	Oct. 29
	SUDBURY	1	0	32	Jul. 13
	WINDSOR	2	0	41	Jan. 7
	HAPPY VALLEY	24	13	116	Apr. 23
	WELLAND	46	15	77	Oct. 6
	NIAGARA FALLS	0	0	20	Nov. 9
1975	TORONTO	2	1	62	Nov. 20
	HAMILTON	10	0	38	Oct. 24
	SUDBURY	0	0	30	Feb. 1
	WINDSOR	0	0	28	Feb. 11
	WELLAND	0	0	23	Jan. 24
	NIAGARA FALLS	0	0	21	Nov. 24
	CONISTON	0	0	30	May 13

ONTARIO'S AIR POLLUTION INDEX

YEAR	CITY	NUMBER OCCASIONS ≥ 32	NUMBER OCCASIONS ≥ 50	MAXIMUM INDEX	DATE OF MAXIMUM
1976	TORONTO	1	0	33	Oct. 3
	HAMILTON	8	0	41	Dec. 16
	SUDBURY	0	0	28	June 6
	WINDSOR	1	0	34	Dec. 16
	WELLAND	0	0	24	Dec. 16
	NIAGARA FALLS	0	0	25	Feb. 21
	CONISTON	0	0	29	Sep. 16
	NEW SUDBURY	0	0	29	Apr. 2, 3 June 20
1977	TORONTO	4	0	36	Jan. 15
	HAMILTON	10	0	44	Mar. 12
	SUDBURY	0	0	24	June 11
	WINDSOR (12008)	1	0	33	Apr. 19
	WINDSOR (12016)	0	0	29	Apr. 19
	WELLAND	0	0	22	Jan. 24, 25
	NIAGARA FALLS	0	0	28	Feb. 21
	CONISTON	0	0	25	Apr. 25
	NEW SUDBURY	1	0	39	June 11
	SARNIA	0	0	15	Dec. 13
1978	TORONTO	2	0	45	Nov. 5
	HAMILTON	7	0	43	Nov. 4
	SUDBURY	0	0	31	Jan. 22
	WINDSOR (12008)	1	0	33	Apr. 19
	WINDSOR (12016)	0	0	28	Feb. 18
	WELLAND	0	0	24	Mar. 15
	NIAGARA FALLS	0	0	23	Nov. 4 Mar. 11
	CONISTON	3	0	34	Feb. 7
	NEW SUDBURY	1	0	42	Feb. 2
	SARNIA	3	0	41	Jan. 24
1979	TORONTO	2	0	35	Oct. 18
	HAMILTON	23	1	55	Dec. 22
	SUDBURY	0	0	18	July 7
	WINDSOR (12008)	0	0	31	Feb. 20
	WINDSOR (12016)	0	0	27	Feb. 21
	NIAGARA FALLS	0	0	27	Feb. 21
	CONISTON	0	0	31	Feb. 14
	NEW SUDBURY	0	0	28	Feb. 14
	SARNIA	2	0	43	Feb. 20
	ST. CATHARINES	0	0	29	Nov. 6
1980	TORONTO	0	0	31	Dec. 8
	HAMILTON	5	0	40	Oct. 16
	SUDBURY	0	0	23	Oct. 16
	WINDSOR (12008)	0	0	25	Feb. 8, 9
	WINDSOR (12016)	0	0	25	Dec. 29
	NIAGARA FALLS	0	0	18	May 24
	CONISTON	0	0	30	Feb. 10, Mar. 9
	NEW SUDBURY	0	0	24	Jul. 3, Oct. 16
	SARNIA	1	0	39	Mar. 20
	ST. CATHARINES	0	0	28	Feb. 20

ONTARIO'S AIR POLLUTION INDEX

YEAR	CITY	NUMBER OCCASIONS ≥ 32	NUMBER OCCASIONS ≥ 50	MAXIMUM INDEX	DATE OF MAXIMUM
1981	TORONTO	3	0	43	Nov. 14
	HAMILTON	8	0	38	Nov. 15
	SUDBURY	0	0	21	Jan. 31
	WINDSOR (12008)	1	0	42	Nov. 17
	WINDSOR (12016)	0	0	31	Nov. 17
	NIAGARA FALLS	0	0	25	Jan. 14
	CONISTON	0	0	20	Nov. 25
	NEW SUDBURY	0	0	22	Jan. 28 – 29
	SARNIA	1	0	34	Feb. 16
	ST. CATHARINES	0	0	27	Jan. 14 – 15
1982	TORONTO	3	2	54	Oct. 27
	HAMILTON	12	0	39	Dec. 2
	SUDBURY	0	0	15	Feb. 3
	WINDSOR (12008)	0	0	31	Oct. 26 – 27
	WINDSOR (12016)	1	0	35	Oct. 27
	NIAGARA FALLS	0	0	19	Jan. 19
	CONISTON	1	0	39	Feb. 5
	NEW SUDBURY	0	0	29	Feb. 5
	SARNIA	0	0	27	Mar. 11 Nov. 7 – 8
	ST. CATHARINES	0	0	31	Nov. 18
1983	TORONTO	3	0	39	Jan. 29
	HAMILTON	1	0	37	Mar. 2
	SUDBURY	1	0	39	Jan. 22
	WINDSOR (12008)	0	0	26	Sep. 27
	WINDSOR (12016)	1	0	33	Mar. 1 – 2
	NIAGARA FALLS	0	0	17	Jan. 30
	CONISTON	0	0	19	Jan. 15
	NEW SUDBURY	1	1	63	Jan. 22
	SARNIA	0	0	28	Jan. 29
	ST. CATHARINES	0	0	23	Jan. 30
1984	TORONTO	2	1	50	Jan. 16
	HAMILTON	8	0	44	Nov. 27
	SUDBURY	0	0	23	Feb. 1
	WINDSOR (12008)	0	0	31	Oct. 2, Nov. 14
	WINDSOR (12016)	1	0	40	Feb. 15
	NIAGARA FALLS	0	0	20	Dec. 10 – 11
	CONISTON	0	0	29	Nov. 22
	NEW SUDBURY	0	0	23	Nov. 22
	SARNIA	0	0	27	Jan. 23
	ST. CATHARINES	0	0	24	Feb. 10 – 11

SECTION C POLLUTANTS MEASURED BY HIGH VOLUME SAMPLER MONITORING (DAILY DATA)

TSP

TOTAL SUSPENDED PARTICULATE

11.1 Characteristics

Suspended particulate is a generic term for airborne particles including smoke, fume, dust, fly ash and pollen. Composition varies with place and season but normally includes soil particulates, organic matter, sulphur and nitrogen compounds and metals such as lead. Size range is approximately .1 to 100 microns (10^{-6} metres diameter).

11.2 Effects

The greatest impact on health is from particles less than 10 microns in diameter which can penetrate deep into the lungs and contribute to respiratory disease. More serious health effects may be associated with suspended particulate matter which contains a toxic particulate component or which has adsorbed a gaseous pollutant on the surface of the particles. Corrosion, soiling, damage to vegetation and visibility reduction are additional effects.

11.3 Ontario Criteria

120 ug/m^3 (24 hours)
60 ug/m^3 (1 year — geometric mean)

Limiting Effect — Health

11.4 Sources

Natural sources include wind-blown soil, forest fires and plant pollen. Anthropogenic sources include combustion, incineration, construction, mining, metals smelting and processing, grinding processes, agricultural activity and transportation.

11.5 Method of Monitoring

By High Volume Sampler. Air is drawn through a filter at the rate of approximately 1.4 m^3/min. The (daily) mass concentration of total suspended particulate matter is computed from the mass of collected particles and the volume of air sampled.

11.6 Location and Frequency of Monitoring

The monitoring locations and the length of the sampling cycle (in days) for each location are indicated in the Appendix (Table A-2).

TSP was measured at 147 locations in 1984.

11.7 Monitoring Results

The distribution by percentile; the maximum; the arithmetic and geometric means are given in the Appendix (table A-13). Also, given are the number of exceedances of the 24 hour and one year criteria.

The lowest levels measured in the province were at Atikokan (weather station) where TSP never exceeded 28 ug/m^3.

The greatest number of exceedances of the 24 hour criterion occurred at Hamilton (North Park) and the highest annual mean was measured at Thorold.

There were a total of 122 stations which exceeded the 24 hour criterion and 32 which exceeded the one year criterion. (See also Table 3).

Pb

LEAD IN SUSPENDED PARTICULATE

12.1 Characteristics

A silver bluish, white, soft metal. Molecular weight 207.20.

12.2 Effects

Can degrade renal function, impair hemoglobin synthesis, and alter the nervous system.

12.3 Ontario Criteria

5.0 ug/m^3 (24 hours)
2 ug/m^3 (30 day-geometric mean)

Limiting Effect — Health

12.4. Sources

Combustion of gasoline containing lead additives, secondary smelting of lead, battery manufacture, metal fabrication, some paint and glass manufacture, production of iron, steel, copper and nickel. Lead emissions fell significantly after 1975 with the introduction of lead-free gasoline.

12.5 Method of Monitoring

Lead concentration on high volume filters determined by either X-Ray fluorescence (PbX) or atomic absorption (PbA).

12.6 Location and Frequency of Monitoring

The monitoring locations and the length of the sampling cycle (in days) for each location are indicated in the Appendix (Table A-2).

Lead was measured at 78 locations in 1984.

12.7 Monitoring Results

The distribution by percentile; the maximum; the arithmetic and geometric means are given in the Appendix (Table A-14). Also given are the number of exceedances of the 24 hour criterion. Note that the lowest value reported in these tables is 1 (see Section 13.7 for a discussion of the minimum values).

The lowest lead levels in the province occurred at several rural locations including Mooretown and Simcoe.

The greatest number of exceedances of the 24 hour criterion occurred at Mississauga (2414 Dixie Road) in the vicinity of a lead processing plant. The highest annual mean was at this location as well.

There were a total of six stations which exceeded the daily criterion at least once. (See also Table 3).

TRACE METALS

CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MANGANESE, NICKEL, VANADIUM, ZINC

13.1 Characteristics

Name	Symbol	Properties	Molecular Weight
Cadmium	Cd	silver white, hexagonal	112.41
Cobalt	Co	silver grey, cubic	58.93
Chromium	Cr	steel grey, cubic	52.00
Copper	Cu	red, cubic	63.55
Iron	Fe	silver, cubic	58.85
Manganese	Mn	grey-pink, cubic	54.94
Nickel	Ni	silver, cubic	58.69
Vanadium	V	light grey, cubic	50.94
Zinc	Zn	bluish-white, hexagonal	65.38

13.2 Effects

Depth of penetration into the respiratory system (and consequently risk to health) increase as particle size diminishes. Of the heavy metals, cadmium, chromium and vanadium probably pose the greatest risk to human health and this is reflected in the Ontario criteria (see Section 13.3).

13.3 Ontario Criteria

	24-hour Criterion	Limiting Effects
Cadmium	2 (ug/m^3)	Health
Chromium	1.5 (ug/m^3)	Health
Copper	50 (ug/m^3)	Health
Manganese	50 (ug/m^3)	Health
Nickel	2 (ug/m^3)	Vegetation
Vanadium	2 (ug/m^3)	Health
Zinc	100 (ug/m^3)	Health

13.4 Sources

See Section 1.4.

13.5 Method of Monitoring

Collection is by High Volume Sampler (see Section 11.5). Following determination of TSP, a strip is cut from the exposed filter and ashed to destroy carbonaceous matter. The ashed sample is then digested in acid, and analyzed by atomic absorption spectrophotometry. The mass concentration of each metal in ambient air is calculated from the mass of each metal in TSP and the volume of air sampled, and expressed in ug/m^3.

Detection limits of the analytical methods are listed below.

Metal	Detection Limit (ug/m^3)
Cd	.002
Co	.011
Cr	.004
Cu	.004
Fe	.210
Mn	.007
Ni	.004
V	.014
Zn	.210

13.6 Locations and Frequency of Sampling

The monitoring locations and the length of the sampling cycle (in days) for each location are indicated in the Appendix (Table A-2).

Metals were measured at 55 to 60 stations depending on the element.

13.7 Monitoring Results

The distribution by percentile of the daily data; the maximum; the arithmetic mean; the geometric mean; and the number of exceedances of the daily criterion are provided in the Appendix (Tables A-15 to A-21 for Cadmium through Vanadium respectively). No table is provided for Cobalt where 99.9% of the measurements were below detection limits. Also, the analysis for Zinc has been discontinued due to contamination of the filters by the exhaust from the High Volume Sampler instrument.

There is a difficulty in reporting and performing calculations with data where a significant portion is below detection limits. For data prior to 1986, a value of one unit was reported whenever data fell below the detection limit. Thus in Table A-15 for Cadmium, for example, many of the percentile values are reported as 1 (i.e. .001 ug/m^3). Beginning with 1986 data, the system for reporting and calculating distribution statistics, which includes many values below detection limits, was improved.

Table 3 provides the highlights of Particulate Monitoring for 1984. It shows that only a single exceedance of the air quality criteria for a metal (exclusive of lead) occurred in 1984. This was at Port Colborne and the metal was nickel. Such an exceedance may be harmful to vegetation.

NO_3^-

NITRATE

14.1 Characteristics

Nitrogen oxide compounds, formed from atmospheric nitrogen and oxygen through high temperature combustion, photochemical reactions or bacterial action, may react with other compounds in the air to form nitrate (NO_3^-) or nitric acid (HNO_3).

14.2 Effects

Nitrate and nitric acid are involved in corrosion of materials, visibility degradation and acidic precipitation. They may also have an adverse effect on human health.

14.3 Ontario Criteria

None.

14.4 Sources

Nitrate is primarily a secondary pollutant. Anthropogenic sources of nitrogen oxides or nitrates include all high temperature combustion processes, transportation, and fertilizer production and usage. Natural sources include lightning, biological decomposition and photochemical reactions.

14.5 Method of Monitoring

Nitrates collected on glass fibre filters by a High Volume Sampler are extracted by digestion in distilled water. This extract is reduced to nitrite followed by colourimetric analysis for determination of the mass concentration of atmospheric nitrate.

14.6 Locations and Frequency of Monitoring

The monitoring locations and the length of the sampling cycle (in days) for each location are indicated in the Appendix (Table A-2).

Nitrate monitoring was carried out at 69 locations in 1984.

14.7 Monitoring Results

The distribution by percentile; the maximum; the arithmetic mean; and the geometric mean are given in the Appendix (Table A-22). Highlights of monitoring are summarized in Table 3.

The highest annual mean nitrate concentration was measured at Hamilton (North Park); the highest concentration for a single day occurred at North York (Hwy. 401).

SO_4^{2-}

SULPHATE

15.1 Characteristics

Sulphur dioxide is oxidized in the atmosphere to eventually form sulphate compounds. Intermediaries in the oxidation process such as HSO_3 and SO_3 rapidly combine with water vapour to form sulfuric acid aerosol. This type of process is dependent on atmospheric conditions.

15.2 Effects

Sulphate compounds have been linked to respiratory irritation and disease, corrosion of materials, reduction of visibility and the formation of acidic precipitation.

15.3 Ontario Criteria

None

15.4 Sources

Sulphate is primarily a secondary pollutant. Anthropogenic sources of sulphur oxides include the burning of fuels containing sulphur (such as coal and oil), the smelting of sulphur-containing metals and the refining of petroleum. Natural sources include bacterial decomposition, volcanoes and forest fires.

15.5 Method of Monitoring

Sulphate collected on glass fibre filters by a High Volume Sampler is extracted by digestion in distilled water. The extract is analyzed colourimetrically and the mass concentration of sulphate is calculated.

15.6. Locations and Frequency of Monitoring

The monitoring locations and the length of the sampling cycle (in days) for each location are indicated in the Appendix (Table A-2).

Sulphate monitoring was carried out at 69 locations in 1984.

15.7 Monitoring Results

The distribution by percentile; the maximum; the arithmetic mean; and the geometric mean are given in the Appendix (Table A-23). Highlights of monitoring are summarized in Table 3.

The highest annual mean sulphate concentration was measured at Hamilton (North Park); and the highest concentration for a single day occurred at Toronto (Sherbourne/Wilton).

TABLE 3
HIGHLIGHTS OF PARTICULATE MONITORING — 1984

Pollutant (Unit × ug/m³)	Lowest Mean		Highest Mean	Most Criteria Exceedances 24 Hours	Number of Stations Exceeding Criteria 24 Hour	1 Year	Highest Measured Value	Total Number of Stations
TSP	62013[1]	(28)[2]	27052 (153)	29008 (100)	122	32	27052 (631)	147
Cd (.001)	63005	(<1)	35037 (20)	– (0)	0	n.a.	35037 (343)	57
Co (.01)	SEVERAL	(<1)	77026 (1)	n.a.	n.a.	n.a.	54013 (5)	57
Cr (.001)	46025	(<1)	29011 (25)	– (0)	0	n.a.	45060 (235)	55
Cu (.01)	12005	(2)	77070 (55)	– (0)	0	n.a.	15001 (306)	57
Fe (.01)	47042	(4)	71042 (85)	n.a.	n.a.	n.a.	71042 (394)	60
Mn (.001)	14030	(14)	71042 (543)	– (0)	0	n.a.	45060 (2920)	56
Ni (.001)	63005	(<1)	27047 (217)	27047 (1)	1	n.a.	27047 (2400)	59
Pb (0.1)	SEVERAL	(<1)	46041 (28)	46041 (55)	6	n.a.	31085 (313)	78
NO_3^- (0.1)	72077	(8)	29008 (64)	n.a.	n.a.	n.a.	34007 (333)	69
SO_4^{2-} (0.1)	63022	(44)	29008 (148)	n.a.	n.a.	n.a.	31105 (533)	69
V (.001)	45060	(<1)	29025 (10)	– (0)	0	n.a.	45011 (221)	57

[1]Station Number (for locations see Appendix Table A-2).
[2](Value)

ISBN 0704-3325

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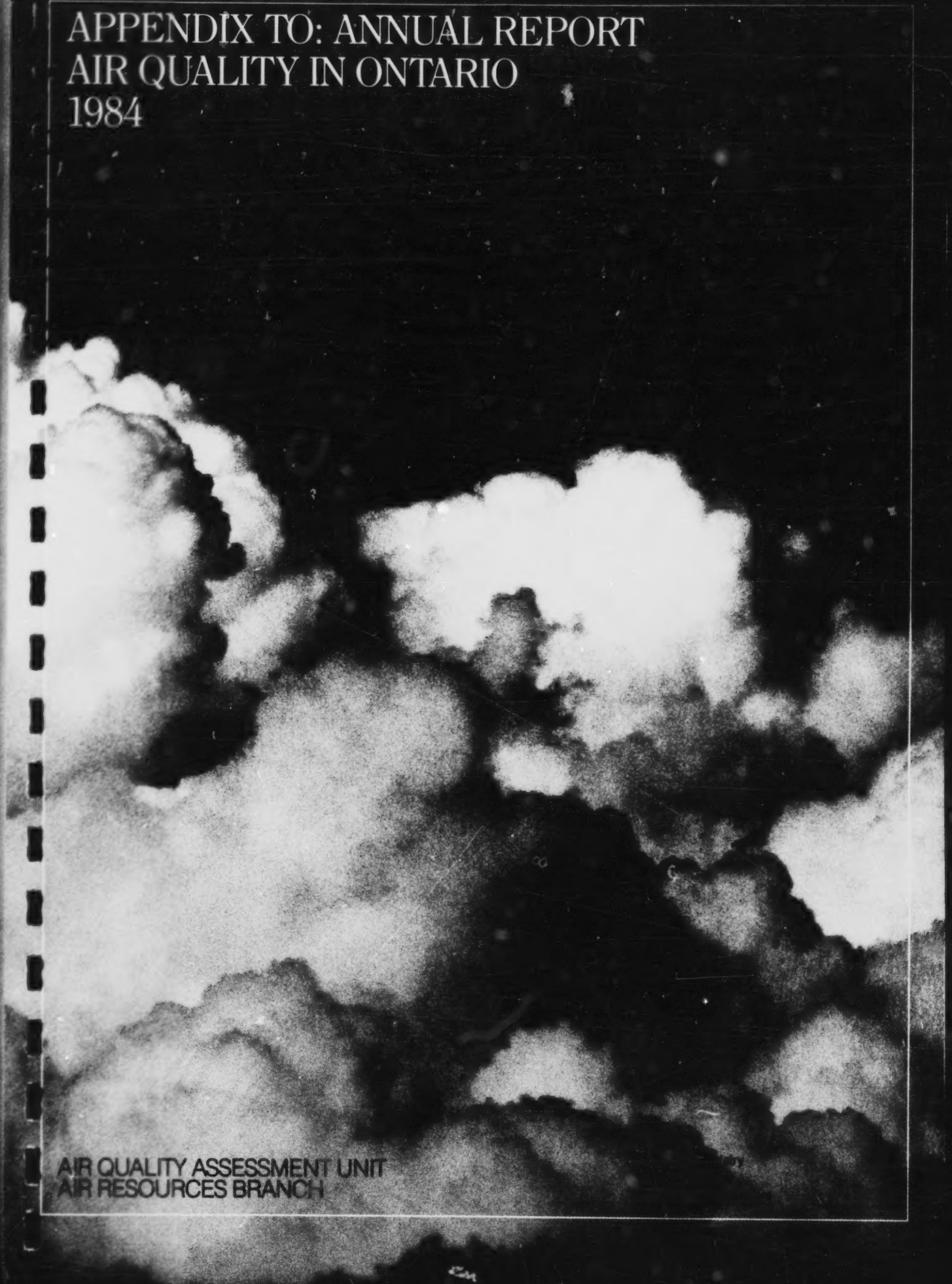
APPENDIX TO: ANNUAL REPORT AIR QUALITY IN ONTARIO 1984



AIR QUALITY ASSESSMENT UNIT
AIR RESOURCES BRANCH

INTRODUCTION

This Appendix is intended for use in conjunction with the Annual Report-Air Quality in Ontario — 1984.

For each pollutant, tables provide the location of stations and supply sample distribution information including means, maxima and the number of exceedances of the Ontario criteria.

The entire continuous (hourly) network is summarized in Appendix Table A-1. This table gives station name, numerical identifier, and pollutants measured. Letter codes indicate whether data are telemetered (T,N,S or B) or chart-read (C). The column headings for pollutants are as follows:

SO_2 sulphur dioxide
COH soiling index (coefficient of haze)
CO carbon monoxide
O_3 ozone)
NO_2 nitrogen dioxide
NO nitric oxide
NOx total nitrogen oxides
THC total hydrocarbons
RHC reactive (non-methane) hydrocarbons
TRS total reduced sulphur
API air pollution index
WS1 wind speed — level 1
WD1 wind direction — level 1
WS2 wind speed — level 2
WD2 wind direction — level 2
WS3 wind speed — level 3
WD3 wind direction — level 3
TEM temperature — level 1
DT1 temperature difference (level 2 - level 1)
DT2 temperature difference (level 3 - level 1)

The particulate (daily) network is summarized in Appendix Table A-2. This table gives station name, numerical identifier, and pollutants measured. Numerals indicate the monitoring cycle frequency in days. Some additional codes are defined in the key at the top of the table. The column headings for pollutants are as follows:

TSP Total suspended particulate
Cd Cadmium
Co Cobalt
Cr Chromium
Cu Copper
Fe Iron
Mn Manganese
Ni Nickel
PbA Lead (analysed by Atomic Absorption)
PbX Lead (analysed by X-Ray Spectroscopy)
V Vanadium
NO_3 Nitrate
SO_4 Sulphate

The statistical data for the various pollutants is provided in Table A-3 through A-23. Tables A-24 and A-25 give detailed locations for the continuous and daily monitoring networks respectively.

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TABLE A-1 THE CONTINUOUS (HOURLY) NETWORK (1984)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-84, HOURLY DATA

T = TORONTO TELEMETRY ONLY N = NEMP TELEMETRY ONLY S = SUDBURY TELEMETRY ONLY B = TORONTO TELEMETRY AND SUDBURY TELEMETRY
C = CHART READ D = CALCULATED BY AQUIS M = MANUAL ENTRY TO AQUIS

STATION NAME	ID		SO2	COH	CO	O3	NO2	NO	NOX	THC	RHC	TRS	API	AQI	WS1	WD1	WS2	WD2	WS3	WD3	TEM	DT1	DT2
HURON PARK	10001	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GRAND BEND	10024	.	.	.	.	.	.	.	.	.	.	.	.	.	C	C	.	.	.	.	.	.	.
WINDSOR- KEITH GS	12001	.	.	.	.	.	.	.	.	.	.	.	.	.	T	T	.	.	T	T	T	.	T
WINDSOR- WRIGHT	12007	.	C	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- UNIVERSITY	12008	.	T	T	T	T	T	C	D	T	C	.	T	.	.	.	.	.	.	.	.	.	.
WINDSOR- WYANDOTTE	12013	.	C	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- COLLEGE	12016	.	T	T	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.
WINDSOR- DOUGALL 2	12047	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- MALDEN	12048	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12008- BACKUP	12108	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12016- BACKUP	12116	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MERLIN	13021	.	.	.	.	C	.	.	.	.	.	.	.	.	C	C	.	.	.	.	.	.	.
COURTRIGHT- CON 14	14004	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COURTRIGHT- HWY 40	14016	.	T	.	.	.	.	.	.	.	.	.	.	.	T	T	T	T	T	T	T	T	T
SARNIA- CENTENNIAL	14064	.	T	T	T	T	T	C	D	T	.	C	T	.	.	.	.	.	.	.	.	.	.
PETROLIA	14118	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
THEDFORD	14119	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14064- BACKUP	14164	.	T	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LONDON- FAIR GROUNDS	15001	.	T	T	T	T	T	T	D	T	.	.	.	.	.	.	.	.	.	.	.	.	.
LONGWOODS	15009	.	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PARKHILL	15013	.	.	.	.	C	.	.	.	.	.	.	.	.	C	C	.	.	.	.	.	.	.
BEACHVILLE	17006	.	.	.	.	.	.	.	.	.	.	.	.	.	C	C	.	.	.	.	.	.	.
TIVERTON- CON RD 2	18007	.	C	.	.	C	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
TIVERTON- BRUCE	18013	.	.	.	.	.	.	.	.	.	.	.	.	.	T	T	T	T	T	T	T	T	T
SIMCOE	22071	.	T	T	.	T	T	T	D	.	T	.	.	.	.	.	.	.	.	.	.	.	.
NANTICOKE- CHEAPSIDE	22086	.	N	.	.	.	N	N	N	.	N	N	.	.	.	.	.	.	.	.	.	.	.
TOWNSEND	22091	.	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
JARVIS	22883	.	.	.	.	.	.	.	.	.	.	.	.	.	N	N	.	.	N	N	N	.	N
LONG POINT	22901	.	N	.	.	N	N	N	N	.	.	.	.	.	N	N	.	.	N	N	N	.	N
NANTICOKE- WALPOLE	22904	.	.	.	.	.	.	.	.	.	N	N	.	.	.	.	.	.	.	.	.	.	.
NANTICOKE- RAINHAM	22907	.	N	.	.	.	.	.	.	.	.	N	.	.	.	.	.	.	.	.	.	.	.
KITCHENER	26029	.	C	.	C	C	C	C	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ALLANBURG	27011	.	.	.	.	.	.	.	.	.	.	.	.	.	T	T	T	T	.	.	T	T	.
ST CATHARINES- NORTH	27037	.	T	T	T	T	T	C	D	.	C	.	T	.	.	.	.	.	.	.	.	.	.
THOROLD- NIAGARA	27042	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
FORT ERIE	27048	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CHIPPAWA- NORTON	27051	.	C	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
THOROLD- QUEEN	27052	.	C	C	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
NIAGARA F- STANLEY	27055	.	C	C	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
NIAGARA F- ALLENDALE	27056	.	T	T	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.

T = TORONTO TELEMETRY ONLY N = NEMP TELEMETRY ONLY S = SUDBURY TELEMETRY ONLY B = TORONTO TELEMETRY AND SUDBURY TELEMETRY
C = CHART READ D = CALCULATED BY AQUIS M = MANUAL ENTRY TO AQUIS

STATION NAME	ID		SO2	COH	CO	O3	NO2	NO	NOX	THC	RHC	TRS	API	AQI	WS1	WD1	WS2	WD2	WS3	WD3	TEM	DT1	DT2
27037- BACKUP	27137	.	T	T	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.
27056- BACKUP	27156	.	T	T	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.
GUELPH- FARQUHAR	28025	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- HUNTER	29001	.	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- WENTWORTH	29025	.	T	T	T	T	T	C	D	.	C	T	T	.	.	.	.	.	.	.	.	.	.
HAMILTON- BRAMPTON	29026	.	.	.	.	.	.	.	.	.	.	.	.	.	T	T	T	T	.	.	T	T	.
HAMILTON- BEACH	29102	.	T	T	T	.	T	T	D	.	C	T	T	.	.	.	.	.	.	.	.	.	.
29025- BACKUP	29125	.	T	T	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.
TORONTO ISLAND	31025	.	.	.	.	.	.	.	.	.	.	.	.	.	M	M	.	.	.	.	.	.	.
TORONTO- LARCHMOUNT	31045	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	C	C	.	.	.	.	.
TORONTO- MISSION	31049	.	.	C	C	.	C	C	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TORONTO- TECUMSETH	31085	.	.	.	.	.	.	.	.	.	.	.	.	.	C	C	.	.	.	.	.	.	.
31104- BACKUP	31103	.	T	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TORONTO- BREADALBANE	31104	.	T	T	T	T	T	T	D	T	.	.	T	.	.	.	.	.	.	.	.	.	.
TORONTO- SHERBOURNE	31105	.	T	T	T	T	T	T	D	.	.	.	T	.	.	.	.	.	.	.	.	.	.
TORONTO- JUNCTION	31120	.	T	T	T	C	T	T	D	T	.	.	T	.	T	T	.	.	.	.	.	.	.
SCARBORO- LAWRENCE	33003	.	T	T	T	T	T	T	D	T	.	.	T	.	T	T	T	T	.	.	T	T	.
SCARBORO- REDLAND	33019	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N YORK- SCIENCE CTR	34002	.	C	.	C	C	C	C	D	C	.	.	.	.	.	.	.	.	.	.	.	.	.
N YORK- STADACONA	34007	.	C	C	C	.	C	C	D	C	.	.	.	.	.	.	.	.	.	.	.	.	.
ETOBICOKE- ELMCREST	35003	.	C	.	C	C	C	C	D	C	.	.	.	.	.	.	.	.	.	.	.	.	.
ETOBICOKE- QUEENSWAY	35005	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ETOBICOKE- EVANS	35033	.	T	T	T	T	T	T	D	T	.	.	T	.	T	T	T	T	T	T	T	T	T
ETOBICOKE- MOE LAB	35050	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BURLINGTON	44008	.	C	.	C	C	C	C	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.
OAKVILLE	44015	.	T	T	T	C	T	T	D	C	.	T	.	.	T	T	.	.	.	.	.	.	.
OSHAWA- RITSON	45025	.	T	T	T	T	T	T	D	.	.	.	T	.	T	T	.	.	.	.	.	.	.
MIS'AUGA- GREEN	46100	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MIS'AUGA- QUEENSWAY	46110	.	C	.	C	C	C	C	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ALLISTON	47035	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BARRIE	47042	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
STOUFFVILLE	48002	.	C	.	.	C	C	C	D	.	.	.	.	.	C	C	.	.	.	.	.	.	.
DORSET	49010	.	C	.	.	C	D	C	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.
OTTAWA- MCDONALD GDN	51001	.	T	T	T	T	T	T	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CORNWALL- MEMORIAL P	56051	.	T	T	T	T	T	T	D	.	.	T	.	.	.	.	.	.	.	.	.	.	.
CORNWALL- 861 W 2ND	56065	.	.	.	.	.	.	.	.	.	.	.	.	.	C	C	.	.	.	.	.	.	.
CORNWALL- 435 W 2ND	56068	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
SOUTH MOUNTAIN	56071	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
PORT HOPE	58031	.	.	.	.	.	.	.	.	.	.	.	.	.	C	C	.	.	.	.	.	.	.
PETERBORO- CITY HALL	59006	.	C	.	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

T = TORONTO TELEMETRY ONLY N = NEMP TELEMETRY ONLY S = SUDBURY TELEMETRY ONLY B = TORONTO TELEMETRY AND SUDBURY TELEMETRY
C = CHART READ D = CALCULATED BY AQUIS M = MANUAL ENTRY TO AQUIS

STATION NAME	ID		SO2	COH	CO	O3	NO2	NO	NOX	THC	RHC	TRS	API	AQI	WS1	WD1	WS2	WD2	WS3	WD3	TEM	DT1	DT2
BALMERTOWN	61014	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DRYDEN	61027	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
KENORA	61030	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
F FRANCES- COLONIZ'N	62032	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
F FRANCES- VICTORIA	62051	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
F FRANCES- CHURCH	62052	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
THUNDER B- ALGOMA	63022	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MARATHON- PENINSULA	63034	.	C	.	.	.	.	.	.	.	.	C	.	.	C	C	.	.	.	.	.	.	.
THUNDER B- JAMES	63040	.	C	C	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
RED ROCK	63084	.	.	.	.	.	.	.	.	.	.	C	.	.	C	C	.	.	.	.	.	.	.
TERRACE BAY	63090	.	.	.	.	.	.	.	.	.	.	C	.	.	C	C	.	.	.	.	.	.	.
HAWKEYE LAKE	63100	.	C	.	.	C	C	C	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.
63090- BACKUP	63190	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
MISSION	71057	.	C*	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NAHA	71058	.	C*	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ELLIOT LAKE	71060	.	.	.	.	.	.	.	.	.	.	.	.	.	S	S	.	.	.	.	S	.	.
S.S.MARIE- FARWELL	71066	.	S	S	S	S	S	D	S	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NORTH BAY	75010	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BURWASH	77009	.	S	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CALLUM	77010	.	S	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SKEAD	77012	.	S	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
HANMER	77013	.	S	.	.	.	.	.	.	.	.	.	.	.	S	S	.	.	.	.	.	.	.
RAYSIDE	77014	.	S	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SUDBURY- ASH	77016	.	B	T	B	B	B	T	D	.	.	.	T	.	.	.	.	.	.	.	.	.	.
SUDBURY- FROOD	77025	.	.	.	.	.	.	.	.	.	.	.	.	.	B	B	.	.	B	B	B	.	B
CONISTON- GOVERNMENT	77028	.	B	T	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.
ESPANOLA- SPRUCE	77029	.	.	.	.	.	.	.	.	.	.	S	.	.	.	.	.	.	.	.	.	.	.
GARSON- FALCONBRIDGE	77065	.	S	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAKE TEMAGAMI	77066	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NEW SUDBURY- KENNEDY	77075	.	B	T	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.
SUDBURY- LONG LAKE	77096	.	S	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
77016- BACKUP	77116	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
77028- BACKUP	77128	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
77075- BACKUP	77175	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MIKKOLA	77201	.	S	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
HIGH FALLS	77202	.	S	.	.	S	S	D	S	.	.	.	.	.	S	S	.	.	.	.	S	.	.
SCIENCE NORTH	77203	.	S	S	S	S	S	D	S	.	.	S	.	.	.	.	.	.	.	.	.	.	.

TABLE A-2 THE PARTICULATE (DAILY) NETWORK (1984)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-84, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS EXCEPT: S = SEASONAL V = VARIABLE W = WEEKDAYS

STATION NAME	ID	YR	TSP	CD	CO	CR	CU	FE	MN	NI	PBA	PBX	V	NO3	SO4
GODERICH	10015	.	6	.	.	.	.	.	.	.	.	.	.	6	6
ST MARYS	11001	.	6	.	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- CITY HALL	12002	.	6	6	6	6	6	6	6	6	.	6	6	6	6
WINDSOR- RIVERSIDE	12005	.	6	6	6	6	6	6	6	6	6	.	6	6	6
LA SALLE	12006	.	6	.	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- WRIGHT	12007	.	6	.	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- UNIVERSITY	12008	.	1	1	1	1	1	1	1	1	1	.	1	1	1
LITTLE RIVER	12009	.	6	.	.	.	.	.	.	.	.	6	.	6	6
WINDSOR- MANNING	12010	.	6	6	6	6	6	6	6	6	6	.	6	6	6
WINDSOR- WYANDOTTE	12013	.	6	6	6	6	6	6	6	6	6	.	6	.	.
WINDSOR- PROSPECT	12015	.	6	6	6	6	6	6	6	6	6	.	6	6	6
WINDSOR- COLLEGE	12016	.	3	.	.	.	.	3	.	.	.	3	.	.	.
WINDSOR- GEORGE	12036	.	6	.	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- CALIFORNIA	12037	.	6	.	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- HOWARD	12038	.	6	.	.	.	.	6	6	.	.	.	.	.	.
WINDSOR- DOUGALL 1	12039	.	6	.	.	.	.	6	.	.	.	.	.	.	.
WINDSOR- DOUGALL 2	12047	.	6	.	.	.	.	6	6	.	.	.	.	.	.
WINDSOR- ALEXANDRINE	12049	.	6	.	.	.	.	6	6	.	.	.	.	.	.
WINDSOR- CHARLES	12050	.	6	.	.	.	.	6	6	.	.	.	.	.	.
AMHERSTBURG	12053	.	6	.	.	.	.	.	.	.	.	.	.	.	.
12015- BACKUP	12115	.	6	.	.	.	.	.	.	.	.	.	.	.	.
CHATHAM	13003	.	6	6	6	6	6	6	6	6	6	.	6	6	6
SARNIA- HITTON	14001	.	6	.	.	.	.	.	.	.	.	.	.	.	.
COURTRIGHT- HWY 40	14016	.	1	1	1	1	1	1	1	1	1	.	1	1	1
CORUNNA- RR1	14030	.	6	6	6	6	6	6	6	6	6	.	6	.	.
HOORETOWN	14031	.	6	6	6	6	6	6	6	6	6	.	6	.	.
SARNIA- POINT EDWARD	14054	.	6	.	.	.	.	.	.	.	.	.	.	.	.
CORUNNA- ST CLAIR	14059	.	6	.	.	.	.	.	.	.	.	.	.	.	.
SARNIA- CENTENNIAL	14064	.	6	6	6	6	6	6	6	6	6	.	6	6	6
SARNIA- DAVID	14151	.	6	.	.	.	.	.	.	.	.	.	.	.	.
LONDON- FAIR GROUNDS	15001	.	6	6	6	6	6	6	6	6	6	.	6	6	6
LONDON- DUNDAS	15003	.	6	.	.	.	.	.	.	.	.	6	.	6	6
ST THOMAS- ALEX'DRIA	15006	.	6	.	.	.	.	.	.	.	.	.	.	.	.
ST THOMAS- TALBOT	15007	.	6	.	.	.	.	.	.	.	.	.	.	.	.
ST THOMAS- EDGEWARE	15008	.	6	.	.	.	.	.	.	.	.	6	.	.	.
LONGWOODS	15009	.	3	3	3	3	3	3	3	3	3	.	3	.	.
BEACHVILLE	17006	.	6	.	.	.	.	.	.	.	.	.	.	.	.
INGERSOLL	17020	.	6	.	.	.	.	.	.	.	.	.	.	.	.
EMBRO	17021	.	3	.	.	.	.	.	.	.	.	.	.	.	.
WINGHAM- WATER	17022	.	6	.	.	.	.	6	.	.	.	.	.	.	.

SINGLE DIGITS = CYCLE DURATION IN DAYS EXCEPT: S = SEASONAL V = VARIABLE W = WEEKDAYS

STATION NAME	ID	YR	TSP	CD	CO	CR	CU	FE	MN	NI	PBA	PBX	V	NO3	SO4
17006- BACKUP 1	17106	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17020- BACKUP	17120	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17006- BACKUP 2	17206	.	6	.	.	.	.	.	.	.	.	.	.	.	.
17006- BACKUP 3	17306	.	6	.	.	.	.	.	.	.	.	.	.	.	.
TIVERTON- CON RD 2	18007	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TIVERTON- CON RD 4	18008	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TIVERTON- CON RD 6	18009	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TIVERTON- CON RD 8	18010	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TIVERTON- CON RD 10	18011	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TIVERTON- BAIE DORE	18012	.	.	.	.	.	.	.	.	.	.	.	.	.	.
WINGHAM- LEOPOLD	18014	.	6	.	.	.	.	.	.	.	.	.	.	.	.
SIMCOE	22071	.	6	6	6	6	6	6	6	6	6	.	6	6	6
NANTICOKE- CHEAPSIDE	22086	.	6	.	.	.	.	.	.	.	.	.	.	6	6
JARVIS- JAMES	22087	.	6	.	.	.	.	.	.	.	.	.	.	.	.
PORT DOVER	22090	.	6	.	.	.	.	.	.	.	.	.	.	.	.
TOWNSEND	22091	.	6	.	.	.	.	.	.	.	.	.	.	.	.
JARVIS- RAINHAM	22092	.	6	.	.	.	.	.	.	.	.	.	.	.	.
NANTICOKE- WALPOLE	22904	.	6	.	.	.	.	.	.	.	.	6	.	.	.
NANTICOKE- RAINHAM	22907	.	6	.	.	.	.	.	.	.	.	.	.	.	.
PEACOCK PT	22952	.	6	.	.	.	.	.	.	.	.	.	.	.	.
BIG CREEK	22959	.	6	.	.	.	.	.	.	.	.	.	.	.	.
JARVIS- MCKENZIE	22960	.	6	.	.	.	.	.	.	.	.	.	.	.	.
NANTICOKE- RD	22961	.	6	.	.	.	.	.	.	.	.	.	.	.	.
NANTICOKE- GS	22964	.	6	.	.	.	.	.	.	.	.	.	.	.	.
JARVIS- HWY 6	22965	.	6	.	.	.	.	.	.	.	.	.	.	.	.
KITCHENER	26029	.	6	6	6	6	6	6	6	6	6	.	6	6	6
CHIPPAWA- STANLEY	27014	.	6	.	.	.	.	.	.	.	.	.	.	.	.
PORT COLBORNE	27030	.	6	.	.	.	.	.	.	6	.	.	.	.	.
ST CATHARINES- NORTH	27037	.	6	6	6	6	6	6	6	6	.	6	6	6	6
WELLAND	27045	.	6	.	.	.	.	.	.	.	.	.	.	.	.
PORT COLBORNE- DAVIS	27047	.	6	.	.	.	.	.	.	6	.	.	.	.	.
CHIPPAWA- NORTON	27051	.	6	.	.	.	.	.	.	.	.	.	.	.	.
THOROLD- QUEEN	27052	.	6	.	.	.	.	.	.	.	.	.	.	.	.
NIAGARA F- FIRST	27053	.	6	.	.	.	.	.	.	.	.	.	.	.	.
NIAGARA F- STANLEY	27055	.	6	.	.	.	.	.	.	.	.	.	.	.	.
NIAGARA F- ALLENDALE	27056	.	6	.	.	.	.	.	.	.	.	.	.	6	6
ST CATH- EASTCHESTER	27059	.	3	3	.	3	3	3	3	3	.	3	3	.	.
ST CATH- PETRIE	27060	.	3	3	.	3	3	3	3	3	.	3	3	.	.
GUELPH- FARQUHAR	28025	.	6	.	.	.	.	.	.	.	.	6	.	6	6
GUELPH- HANLON	28027	.	6	.	.	.	.	.	.	.	.	.	.	.	.

SINGLE DIGITS = CYCLE DURATION IN DAYS EXCEPT: S = SEASONAL V = VARIABLE W = WEEKDAYS

STATION NAME	ID	YR	TSP	CD	CO	CR	CU	FE	MN	NI	PBA	PBX	V	NO3	SO4
HAMILTON- HUNTER	29001	.	6	6	6	6	6	6	6	6	6	.	6	6	6
HAMILTON- KENILWORTH	29009	.	6	.	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- BURLINGTON	29011	.	6	6	6	6	6	6	6	6	6	.	6	6	6
HAMILTON- WELLINGTON	29012	.	6	6	6	6	6	6	6	6	6	.	6	6	6
HAMILTON- CHATHAM	29017	.	6	6	6	6	6	6	6	6	6	.	6	6	6
HAMILTON- WENTWORTH	29025	.	1	1	1	1	1	1	1	1	1	.	1	1	1
HAMILTON- HUGHSON	29067	.	6	6	6	6	6	6	6	6	6	.	6	.	.
HAMILTON- INVERNESS	29085	.	6	6	6	6	6	6	6	6	6	.	6	6	6
HAMILTON- CUMBERLAND	29087	.	6	.	.	.	.	.	.	.	.	.	.	6	6
HAMILTON- BARTON	29089	.	6	.	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- BAY	29098	.	6	.	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- BEACH	29102	.	1	1	1	1	1	1	1	1	.	1	1	1	1
WINONA- 300 FIFTY RD	29108	.	3	.	.	.	.	.	.	.	.	.	.	.	.
WINONA- 287 FIFTY RD	29109	.	3	.	.	.	.	.	.	.	.	.	.	.	.
WINONA- HWY 8	29110	.	3	.	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- MAIN	29118	.	6	6	6	6	6	6	6	6	6	.	6	.	.
TORONTO- MOSLEY	31058	.	1	1	1	1	1	1	1	1	.	1	1	.	.
TORONTO- BERKSHIRE	31064	.	1	1	1	1	1	1	1	1	.	1	1	.	.
TORONTO- DUFFERIN	31079	.	1	.	.	.	.	.	.	.	.	1	.	.	.
TORONTO- HAMILTON	31082	.	1	.	.	.	.	.	.	.	.	1	.	.	.
TORONTO- SAULTER	31084	.	1	.	.	.	.	.	.	.	.	1	.	.	.
TORONTO- TECUMSETH	31085	.	1	.	.	.	.	.	.	.	.	1	.	.	.
TORONTO- BREADALBANE	31104	.	1	1	1	1	1	1	1	1	1	.	1	1	1
TORONTO- SHERBOURNE	31105	.	3	.	.	.	.	.	.	.	.	3	.	3	3
TORONTO- JUNCTION	31120	.	3	3	3	3	.	3	3	3	.	3	3	3	3
31104- BACKUP 1	31121	.	3	3	3	3	3	3	3	3	3	.	3	3	3
31104- BACKUP 2	31122	.	3	3	3	3	3	3	3	3	3	.	3	3	3
31104- BACKUP 3	31123	.	1	1	1	1	1	1	1	1	1	.	1	1	1
31104- BACKUP 4	31124	.	1	1	1	1	1	1	1	1	.	1	1	1	1
TORONTO- BATHURST	31181	.	1	.	.	.	.	.	.	.	.	1	.	.	.
E YORK- INDUSTRIAL	32008	.	1	1	1	1	1	1	1	1	.	1	1	.	.
SCARBORO- LAWRENCE	33003	.	3	3	3	3	3	3	3	3	3	.	3	3	3
SCARBORO- REDLAND	33019	.	6	.	.	.	.	.	.	.	.	6	.	6	6
N YORK- SCIENCE CTR	34002	.	3	3	3	3	3	3	3	3	3	.	3	3	3
ETOBICOKE- ELMCREST	35003	.	3	3	3	3	3	3	3	3	3	.	3	3	3
ETOBICOKE- QUEENSWAY	35005	.	3	.	.	.	.	.	.	.	.	.	.	3	3
ETOBICOKE- EVANS	35033	.	3	3	3	3	3	3	3	3	3	.	3	3	3
ETOBICOKE- LAKESHORE	35037	.	1	1	1	1	1	1	1	1	1	.	1	.	.
ETOBICOKE- MOL LAB	35051	.	1	.	.	.	.	.	.	.	.	.	.	.	.
BURLINGTON	44008	.	3	3	3	3	3	3	3	3	3	.	3	3	3

SINGLE DIGITS = CYCLE DURATION IN DAYS EXCEPT: S = SEASONAL V = VARIABLE W = WEEKDAYS

STATION NAME	ID	YR	TSP	CD	CO	CR	CU	FE	MN	NI	PBA	PBX	V	NO3	SO4
OAKVILLE	44015	.	3	3	3	3	3	3	3	3	3	.	3	3	3
PICKERING- FIRE HALL	45001	.	1	1	1	1	1	1	1	1	1	.	1	1	1
PICKERING- MCDONALD	45003	.	3	.	.	.	.	.	.	.	.	.	.	.	.
PICKERING- LIVERPOOL	45005	.	3	.	.	.	.	.	.	.	.	.	.	.	.
AJAX- LAKEDRIVE WAY	45006	.	3	.	.	.	.	.	.	.	.	.	.	.	.
AJAX- HOSPITAL	45007	.	1	.	.	.	.	.	.	.	.	.	.	.	.
PICKERING- SQUIRES	45008	.	3	.	.	.	.	.	.	.	.	.	.	.	.
OSHAWA- LIBRARY	45011	.	3	3	3	3	3	3	3	3	3	.	3	.	.
OSHAWA- RITSON	45025	.	3	.	.	.	.	.	.	.	.	3	.	3	3
MIS'AUGA- LIBRARY	46025	.	6	6	6	6	6	6	6	6	6	.	6	6	6
BRAMALEA	46033	.	6	6	6	6	6	6	6	6	.	6	6	6	6
MIS'AUGA- 2414 DIXIE	46041	.	1	.	.	.	.	.	.	.	.	1	.	.	.
MIS'AUGA- 2365 DIXIE	46045	.	1	.	.	.	.	.	.	.	.	1	.	.	.
MIS'AUGA- 2360 DIXIE	46046	.	1	.	.	.	.	.	.	.	.	1	.	.	.
MIS'AUGA- QUEENSWAY	46110	.	3	.	.	.	.	.	.	.	.	3	.	3	3
ORILLIA	47019	.	6	.	.	.	.	.	.	.	.	.	.	6	6
BARRIE	47042	.	3	3	3	3	3	3	3	3	3	.	3	3	3
STOUFFVILLE	48002	.	3	.	.	.	.	.	.	.	.	.	.	.	.
BELLEV'LLE	54013	.	6	6	6	6	6	6	6	6	6	.	6	6	6
CORNWALL- MONTREAL	56006	.	6	.	.	.	.	.	.	.	.	.	.	6	6
CORNWALL- MEMORIAL P	56051	.	6	6	6	6	6	6	6	6	6	.	6	6	6
L'ORIGNAL	56095	.	6	6	6	6	6	6	6	6	.	6	6	.	.
PORT HOPE- SHUTER	58027	.	1	.	.	.	.	.	.	.	.	.	.	1	1
PORT HOPE- MARSH	58041	.	1	.	.	.	.	.	.	.	.	.	.	1	1
PORT HOPE- QUEEN	58042	.	1	.	.	.	.	.	.	.	.	.	.	1	1
PETERBORO- ERSKINE	59003	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PETERBORO- CRAWFORD	59004	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PETERBORO- CITY HALL	59006	.	3	3	3	3	3	3	3	3	3	.	3	3	3
LINDSAY- MOUNT HOPE	59054	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LINDSAY- COLBORNE	59056	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATIKOKAN	62013	.	6	.	.	.	.	.	.	.	.	.	.	.	.
F FRANCES- COLONIZ'N	62032	.	6	.	.	.	.	.	.	.	.	.	.	.	.
F FRANCES- CHURCH	62035	.	6	.	.	.	.	.	.	.	.	.	.	.	.
THUNDER B- ARCHIBALD	63005	.	6	6	6	.	6	6	6	6	6	.	6	6	6
THUNDER B- DAWSON	63012		6	.	.		.	.	.	.	.	.	.	.	.
THUNDER B- ALGOMA	63022	.	6	6	6	6	6	6	6	6	6	.	6	6	6
THUNDER B- JAMES	63040	.	6	.	.	.	.	.	.	.	.	6	.	6	6
THUNDER B- MONTREAL	63046	.	6	.	.	.	.	.	.	.	.	.	.	.	.
THUNDER B- WILLIAM	63052	.	6	.	.	.	.	.	.	.	.	.	.	.	.
LONGLAC- CENTENNIAL	63070	.	6	.	.	.	.	.	.	.	.	.	.	.	.

SINGLE DIGITS = CYCLE DURATION IN DAYS EXCEPT: S = SEASONAL V = VARIABLE W = WEEKDAYS

STATION NAME	ID	YR	TSP	CD	CO	CR	CU	FE	MN	NI	PBA	PBX	V	NO3	SO4
S.S.MARIE- BONNEY	71042	.	6	6	6	6	6	6	6	6	6	.	6	6	6
S.S.MARIE- QUEEN	71049	.	6	6	6	6	6	6	6	6	6	.	6	6	6
ELLIOT LK- DENISON	71053	.	6	.	.	.	.	.	.	.	.	.	.	.	.
ELLIOT LK- PORRIDGE	71062	.	6	.	.	.	.	.	.	.	.	.	.	.	.
BLIND RIVER	71065	.	6	.	.	.	.	.	.	.	.	.	.	.	.
S.S.MARIE- FARWELL	71066	.	6	6	6	6	6	6	6	6	6	.	6	6	6
ELLIOT LK- DUNLOP	71067	.	3	.	.	.	.	.	.	.	.	.	.	.	.
TIMMINS	72077	.	6	6	6	6	6	6	6	6	6	.	6	6	6
NORTH BAY	75010	.	6	6	6	6	6	6	6	6	6	.	6	6	6
NE REGION MOBILE	77000	.	V	V	V	V	V	V	V	V	V	.	V	V	V
SUDBURY- ASH	77016	.	6	6	6	6	6	6	6	6	6	.	6	6	6
SUDBURY- LISGAR	77026	.	6	6	6	6	6	6	6	6	6	.	6	6	6
ESPANOLA- SPRUCE	77029	.	6	.	.	.	.	.	.	.	.	.	.	.	.
COPPER CLIFF	77070	.	6	6	6	6	6	6	6	6	6	.	6	6	6
FALCONBRIDGE	77076	.	6	6	6	6	6	6	6	6	6	.	6	6	6
ESPANOLA- DELBAG	77129	.	.	.	.	.	.	.	.	.	.	.	.	6	6

TABLE A-3 SULPHUR DIOXIDE (SO_2) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - SULPHUR DIOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR	1YR
12007	WRIGHT/WATER ST WINDSOR	173	.000	.000	.003	.008	.019	.058	.011	0.16	0.04	0	0	INS
12008	467 UNIVERSITY AV W WINDSOR	357	.000	.000	.000	.004	.018	.053	.007	0.20	0.05	0	0	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	352	.000	.000	.000	.000	.008	.026	.004	0.09	0.04	0	0	0
12016	COLLEGE/SOUTH ST WINDSOR	347	.000	.000	.002	.008	.024	.054	.010	0.17	0.04	0	0	0
12032	MORTON DOCK, BEDFORD/OJIBWAY WINDSOR	103	.000	.000	.000	.006	.015	.034	.007	0.07	0.04	0	0	INS
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	231	.000	.000	.000	.004	.013	.040	.006	0.15	0.03	0	0	INS
12048	MALDEN RD (S LAURIER DR) WINDSOR	229	.000	.000	.000	.001	.011	.047	.005	0.10	0.05	0	0	INS
14004	CON RD 14 (E OF RWY TRACK) COURTRIGHT	352	.000	.000	.000	.001	.009	.036	.005	0.18	0.03	0	0	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	331	.000	.000	.000	.000	.009	.043	.004	0.16	0.03	0	0	0
14062	242 INDIAN RD S SARNIA	196	.000	.000	.000	.003	.017	.066	.007	0.61	0.06	2	0	INS
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	338	.000	.000	.000	.003	.024	.096	.009	0.32	0.08	1	0	0
14164	CENTENNIAL PK BKUP SARNIA	288	.000	.000	.000	.000	.019	.095	.008	0.33	0.07	1	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	358	.000	.000	.000	.000	.008	.029	.004	0.08	0.04	0	0	0
18007	CONCESSION RD 2 LOT A TIVERTON	366	.000	.000	.001	.006	.010	.030	.007	0.08	0.03	0	0	0
22071	EXPERIMENTAL FARM SIMCOE	325	.000	.000	.000	.000	.009	.029	.004	0.14	0.04	0	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - SULPHUR DIOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR	1YR
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	358	.000	.000	.000	.000	.008	.044	.004	0.19	0.05	0	0	0
22091	TOWNLINE RD/CON 13 TOWNSEND	250	.000	.000	.000	.000	.007	.031	.003	0.35	0.05	2	0	0
22901	PROVINCIAL PARK LONG POINT	345	.000	.000	.000	.000	.005	.029	.002	0.15	0.04	0	0	0
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	301	.000	.000	.000	.000	.009	.064	.005	0.22	0.08	0	0	0
26029	EDNA/FREDERICK STS KITCHENER	343	.000	.000	.000	.000	.007	.031	.003	0.09	0.05	0	0	0
27037	NORTH/GENEVA ST ST CATHARINES	357	.000	.000	.000	.001	.011	.038	.005	0.11	0.05	0	0	0
27042	NIAGARA FALLS RD/ONTARIO ST THOROLD	333	.000	.000	.000	.000	.000	.036	.001	0.31	0.04	2	0	0
27048	NIAGARA PUB WORKS,DOMINION RD FORT ERIE	302	.000	.000	.000	.002	.010	.028	.005	0.17	0.03	0	0	0
27051	HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA	361	.000	.000	.000	.005	.014	.035	.007	0.12	0.04	0	0	0
27052	185 QUEEN ST S THOROLD	357	.000	.000	.000	.005	.036	.107	.012	0.18	0.08	0	0	0
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	366	.000	.000	.000	.000	.003	.018	.002	0.12	0.02	0	0	0
27056	ALLENDALE AV NIAGARA FALLS	356	.000	.000	.000	.000	.010	.034	.004	0.11	0.04	0	0	0
27137	NORTH/GENEVA ST API BKUP ST CATHARINES	349	.000	.000	.000	.004	.010	.039	.006	0.11	0.06	0	0	0
27156	ALLENDALE AV API BKUP NIAGARA FALLS	338	.000	.000	.003	.009	.019	.043	.010	0.11	0.04	0	0	0
28025	FARQUHAR/WYNDHAM ST GUELPH	349	.000	.000	.000	.000	.004	.028	.002	0.15	0.04	0	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - SULPHUR DIOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR	1YR
29008	NORTH PARK HAMILTON	266	.000	.001	.007	.016	.033	.063	.016	0.13	0.07	0	0	0
29025	BARTON/WENTWORTH HAMILTON	360	.000	.001	.006	.012	.030	.069	.015	0.18	0.07	0	0	0
29102	467 BEACH BLVD HAMILTON	69	.000	.000	.002	.010	.027	.061	.011	0.11	0.04	0	0	INS
29125	BARTON/WENTWORTH API BKUP HAMILTON	360	.000	.000	.002	.008	.024	.058	.011	0.17	0.05	0	0	0
31103	26 BREADALBANE BKUP TORONTO	355	.000	.000	.000	.003	.015	.047	.006	0.20	0.07	0	0	0
31104	26 BREADALBANE TORONTO	363	.000	.000	.000	.001	.013	.046	.006	0.20	0.08	0	0	0
31105	SHERBOURNE/WILTON STS TORONTO	258	.000	.000	.000	.005	.015	.047	.007	0.12	0.05	0	0	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	351	.000	.000	.000	.004	.014	.041	.007	0.14	0.06	0	0	0
32006	MILLWOOD RD (CPR TRACKS) EAST YORK	137	.000	.000	.000	.001	.009	.025	.004	0.13	0.03	0	0	INS
33003	LAWRENCE/KENNEDY SCARBORO	355	.000	.000	.000	.000	.009	.034	.004	0.12	0.05	0	0	0
33014	VICTORIA PK/BISCAYNE BLVD SCARBORO	150	.000	.000	.003	.008	.019	.048	.010	0.16	0.06	0	0	INS
33015	BIRCHMOUNT/HIGHVIEW SCARBORO	131	.000	.000	.001	.008	.018	.041	.009	0.14	0.03	0	0	INS
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	311	.000	.000	.000	.000	.001	.024	.002	0.15	0.04	0	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	360	.000	.000	.003	.007	.014	.039	.009	0.13	0.06	0	0	0
34007	STADACONA/HWY 401 NORTH YORK	355	.000	.000	.000	.006	.018	.048	.008	0.17	0.05	0	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - SULPHUR DIOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR	1YR
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	338	.000	.000	.000	.004	.010	.034	.006	0.23	0.04	0	0	0
35005	QUEENSWAY HOSPITAL ETOBICOKE	318	.000	.000	.000	.006	.014	.036	.007	0.19	0.05	0	0	0
35033	EVANS/ARNOLD AV ETOBICOKE	355	.000	.000	.000	.001	.010	.037	.005	0.10	0.04	0	0	0
35050	125 RESOURCES RD (MOE LAB) ETOBICOKE	291	.000	.000	.001	.007	.016	.048	.009	0.31	0.06	1	0	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	348	.000	.000	.000	.003	.009	.029	.005	0.13	0.04	0	0	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	347	.000	.000	.000	.003	.018	.052	.007	0.17	0.05	0	0	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	308	.000	.000	.000	.001	.011	.035	.005	0.17	0.05	0	0	0
46100	PUB SCHOOL, GREEN GLADE RD MISSISSAUGA	349	.000	.000	.000	.000	.009	.034	.004	0.09	0.05	0	0	0
46 10	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	327	.000	.000	.000	.004	.010	.039	.006	0.35	0.05	1	0	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	351	.000	.000	.000	.000	.008	.029	.003	0.10	0.05	0	0	0
48002	HWY47/E OF HWY48 STOUFFVILLE	342	.000	.000	.000	.004	.009	.022	.005	0.09	0.03	0	0	0
49010	HWY 117/PAINT LAKE RD DORSET	354	.000	.000	.000	.000	.004	.019	.002	0.06	0.02	0	0	0
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	362	.000	.000	.000	.000	.004	.024	.002	0.09	0.04	0	0	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	339	.000	.000	.000	.006	.021	.071	.009	0.23	0.05	0	0	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	348	.000	.000	.000	.000	.007	.021	.003	0.05	0.03	0	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - SULPHUR DIOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR	1YR
61014	SEWAGE TREATMENT PLT BALMERTOWN	365	.000	.000	.000	.000	.000	.177	.005	0.63	0.15	50	2	0
61030	112 FOURTH ST N KENORA	348	.000	.000	.000	.000	.000	.009	.001	0.07	0.01	0	0	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	361	.000	.000	.000	.000	.000	.003	.000	0.02	0.00	0	0	0
63034	PENINSULA BLDG MARATHON	109	.000	.000	.000	.000	.000	.033	.001	0.09	0.02	0	0	INS
63040	435 JAMES ST S THUNDER BAY	350	.000	.000	.000	.000	.000	.005	.000	0.04	0.00	0	0	0
63100	HAWKEYE LAKE	325	.000	.000	.000	.000	.000	.000	.000	0.04	0.00	0	0	0
71002	GOUDREAU	69	.000	.000	.000	.000	.004	.126	.006	0.28	0.06	3	0	INS
71057	38 MICHIPICOTEN AV MICHIPICOTEN HARBOUR	331	.000	.000	.000	.000	.000	.097	.004	0.71	0.10	22	0	0
71058	SIR JAMES DUNN PS WAWA	321	.000	.000	.000	.000	.017	.105	.007	0.97	0.11	21	1	0
71059	CARL H BECK PS WAWA	193	.000	.000	.000	.000	.000	.101	.004	0.61	0.10	11	0	INS
71066	FARWELL PUMPHOUSE SAULT STE MARIE	318	.000	.000	.000	.005	.014	.039	.007	0.12	0.04	0	0	0
75010	OPP STN NORTH BAY	242	.000	.000	.000	.000	.007	.026	.003	0.11	0.03	0	0	INS
77000	NE REGION MOBILE MONITOR	117	.000	.000	.000	.013	.170	.679	.053	1.48	0.55	171	19	INS
77009	BURWASH	339	.000	.000	.000	.000	.011	.084	.006	0.65	0.08	8	0	0
77010	CALLUM	343	.000	.000	.000	.000	.011	.080	.006	0.52	0.08	7	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - SULPHUR DIOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR	1YR
77012	SKEAD	338	.000	.000	.000	.000	.020	.187	.011	0.57	0.09	34	0	0
77013	HANMER	331	.000	.000	.000	.003	.020	.105	.009	0.90	0.11	13	1	0
77014	RAYSIDE	339	.000	.000	.000	.000	.011	.065	.005	0.85	0.08	7	0	0
77016	WATER TANK, ASH ST SUDBURY	362	.000	.000	.000	.003	.021	.111	.010	0.83	0.08	14	0	0
77028	GOVERNMENT RD/EDWARD ST CONISTON	357	.000	.000	.000	.000	.015	.153	.008	0.60	0.11	20	1	0
77065	FALCONBRIDGE RD GARSON	336	.000	.000	.000	.000	.018	.138	.009	0.92	0.10	22	0	0
77066	BEAR ISLAND LAKE TEMAGAMI	338	.000	.000	.000	.000	.003	.036	.002	0.20	0.02	0	0	0
77075	KENNEDY ST NEW SUDBURY	349	.000	.000	.000	.002	.019	.134	.010	0.47	0.07	18	0	0
77092	LAURENT HOSP, 41 RAMSEY LAKE RD SUDBURY	162	.000	.000	.000	.005	.019	.104	.010	0.34	0.06	5	0	INS
77096	LONG LAKE RD (VILLA LOYOLA) SUDBURY	342	.000	.000	.000	.000	.017	.132	.009	0.79	0.11	13	1	0
77201	MIKKOLA (J HAMILTON SCHOOL) WALDEN	330	.000	.000	.000	.000	.013	.172	.009	0.99	0.19	37	3	0
77202	HIGH FALLS	82	.000	.000	.000	.000	.002	.037	.002	0.20	0.04	0	0	INS
77203	SCIENCE NORTH SUDBURY	138	.000	.000	.000	.002	.018	.129	.010	0.84	0.08	16	0	INS

TABLE A-4 SOILING INDEX (COH) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - SOILING INDEX UNIT = COHS/1000 FT RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 24HR	1YR
12008	467 UNIVERSITY AV W WINDSOR	362	0.04	0.21	0.32	0.48	0.85	1.70	0.46	3.8	1.5	7	0
12016	COLLEGE/SOUTH ST WINDSOR	361	0.09	0.21	0.30	0.46	0.78	1.63	0.44	3.9	1.8	4	0
12108	467 UNIV AV W BKUP WINDSOR	362	0.06	0.23	0.35	0.51	0.89	1.78	0.48	3.9	1.6	8	0
12116	COLLEGE/PRINCE BKUP WINDSOR	361	0.02	0.19	0.29	0.46	0.79	1.69	0.43	4.0	1.9	4	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	357	0.00	0.10	0.21	0.33	0.57	1.03	0.29	2.9	0.9	0	0
14164	CENTENNIAL PK BKUP SARNIA	339	0.00	0.04	0.18	0.30	0.53	0.97	0.26	2.6	0.8	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	358	0.00	0.11	0.20	0.32	0.56	1.23	0.29	3.1	0.9	0	0
15009	LONGWOODS CONSERVATION AUTHORITY	189	0.00	0.00	0.08	0.18	0.36	0.64	0.17	1.0	0.7	0	INS
22071	EXPERIMENTAL FARM SIMCOE	324	0.00	0.00	0.11	0.21	0.37	0.68	0.18	1.4	0.7	0	0
27037	NORTH/GENEVA ST ST CATHARINES	359	0.00	0.01	0.16	0.26	0.48	1.15	0.24	3.0	1.2	1	0
27052	185 QUEEN ST S THOROLD	245	0.04	0.14	0.24	0.37	0.63	1.29	0.35	2.8	1.2	1	0
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	329	0.05	0.16	0.27	0.41	0.69	1.29	0.38	2.9	1.2	1	0
27056	ALLENDALE AV NIAGARA FALLS	360	0.00	0.03	0.15	0.25	0.43	0.88	0.22	2.2	0.9	0	0
27137	NORTH/GENEVA ST API BKUP ST CATHARINES	359	0.00	0.15	0.24	0.35	0.59	1.31	0.33	3.2	1.2	3	0
27156	ALLENDALE AV API BKUP NIAGARA FALLS	360	0.00	0.13	0.23	0.35	0.57	1.09	0.31	2.5	1.2	1	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - SOILING INDEX UNIT = COHS/1000 FT RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 24HR	1YR
29001	HUGHSON/HUNTER HAMILTON	204	0.13	0.28	0.42	0.63	1.16	2.18	0.60	3.7	2.4	18	INS
29008	NORTH PARK HAMILTON	268	0.00	0.26	0.55	0.94	1.48	2.21	0.72	3.7	1.7	69	1
29025	BARTON/WENTWORTH HAMILTON	358	0.09	0.24	0.38	0.59	1.08	2.12	0.55	4.6	2.4	27	1
29102	467 BEACH BLVD HAMILTON	69	0.02	0.33	0.57	0.82	1.28	2.08	0.68	3.1	1.6	12	INS
29125	BARTON/WENTWORTH API BKUP HAMILTON	358	0.11	0.26	0.41	0.63	1.10	2.12	0.57	4.6	2.3	28	1
31049	MISSION, 381 YONGE ST TORONTO	196	0.05	0.15	0.25	0.37	0.60	1.06	0.35	1.7	1.0	0	INS
31103	26 BREADALBANE BKUP TORONTO	361	0.07	0.20	0.32	0.48	0.80	1.48	0.44	3.2	1.5	5	0
31104	26 BREADALBANE TORONTO	361	0.11	0.22	0.34	0.50	0.83	1.55	0.47	3.1	1.7	6	0
31105	SHERBOURNE/WILTON STS TORONTO	359	0.08	0.22	0.34	0.52	0.88	1.66	0.48	3.6	1.4	6	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	360	0.06	0.19	0.30	0.47	0.78	1.67	0.44	4.0	1.7	6	0
33003	LAWRENCE/KENNEDY SCARBORO	358	0.00	0.15	0.25	0.39	0.69	1.37	0.36	3.3	1.2	3	0
34007	STADACONA/HWY 401 NORTH YORK	354	0.00	0.21	0.42	0.75	1.33	2.21	0.62	3.8	2.2	58	1
35033	EVANS/ARNOLD AV ETOBICOKE	345	0.00	0.23	0.39	0.60	0.98	1.91	0.52	3.9	1.9	13	1
44015	BRONTE RD/WOBURN CRES OAKVILLE	358	0.00	0.13	0.24	0.38	0.69	1.53	0.36	3.4	1.7	4	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	334	0.00	0.14	0.27	0.45	0.81	1.68	0.40	3.6	1.6	4	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - SOILING INDEX UNIT = COHS/1000 FT RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 24HR	1YR
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	328	0.00	0.00	0.11	0.20	0.40	1.01	0.19	2.2	1.2	1	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	361	0.00	0.00	0.07	0.17	0.34	0.89	0.16	1.9	1.0	0	0
63040	435 JAMES ST S THUNDER BAY	269	0.00	0.00	0.02	0.11	0.38	1.45	0.16	3.1	1.7	4	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	108	0.00	0.13	0.29	0.55	1.14	2.70	0.52	4.6	1.7	10	INS
77016	WATER TANK, ASH ST SUDBURY	363	0.00	0.00	0.00	0.16	0.34	0.93	0.15	2.4	0.8	0	0
77028	GOVERNMENT RD/EDWARD ST CONISTON	352	0.00	0.00	0.04	0.18	0.40	1.20	0.18	3.1	1.2	1	0
77075	KENNEDY ST NEW SUDBURY	361	0.00	0.00	0.02	0.16	0.34	1.09	0.15	2.8	0.9	0	0
77116	77016 BKUP SUDBURY	363	0.00	0.00	0.02	0.17	0.36	1.01	0.16	3.1	0.9	0	0
77128	77028 BKUP CONISTON	353	0.00	0.00	0.00	0.13	0.32	0.98	0.13	2.3	0.9	0	0
77175	77075 BKUP NEW SUDBURY	358	0.00	0.00	0.01	0.16	0.33	1.06	0.15	2.8	0.9	0	0
77203	SCIENCE NORTH SUDBURY	81	0.00	0.05	0.15	0.30	0.68	1.85	0.31	3.4	1.3	1	INS

TABLE A-5 TOTAL REDUCED SULPHUR (TRS) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - TOTAL REDUCED SULPHUR UNIT = PARTS/BILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
12007	WRIGHT/WATER ST WINDSOR	131	0.0	0.0	0.0	0.0	3.0	16.9	1.3	46	14
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	228	0.0	0.0	0.0	1.5	3.8	8.6	1.4	19	8
12032	MORTON DO[illegible], BEDFORD/OJIBWAY WINDSOR	114	0.0	0.0	0.0	0.0	0.0	1.6	0.1	54	7
14062	242 INDIAN RD S SARNIA	195	0.0	0.0	0.0	0.0	0.0	2.5	0.1	9	3
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	111	0.0	0.0	0.0	0.1	2.7	10.3	1.0	31	7
18007	CONCESSION RD 2 LOT A TIVERTON	305	0.0	0.0	0.0	0.0	0.0	0.9	0.1	51	9
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	346	0.0	0.0	0.0	0.0	0.9	4.5	0.4	14	7
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	258	0.0	0.0	0.0	0.0	1.5	5.1	0.5	24	4
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	277	0.0	0.0	0.0	0.6	2.9	10.4	1.1	69	8
27051	HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA	309	0.0	0.0	0.0	0.0	3.1	20.3	1.3	224	21
27052	185 QUEEN ST S THOROLD	311	0.0	0.0	0.0	1.1	14.5	55.4	4.5	254	39
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	362	0.0	0.0	0.0	0.0	2.3	9.0	0.8	36	8
29008	NORTH PARK HAMILTON	271	0.0	0.0	0.0	0.2	2.2	5.5	0.7	28	5
29025	BARTON/WENTWORTH HAMILTON	302	0.0	0.0	0.3	1.3	4.7	13.3	1.8	44	10
29102	467 BEACH BLVD HAMILTON	55	0.0	0.0	0.0	1.0	3.4	9.9	1.3	41	4

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - TOTAL REDUCED SULPHUR UNIT = PARTS/BILLION

RUN DATE
JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
44015	BRONTE RD/WOBURN CRES OAKVILLE	323	0.0	0.2	1.7	2.9	6.3	14.4	2.8	49	14
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	356	0.0	0.0	0.0	0.1	3.8	18.6	1.5	83	14
56068	SCHOOL, 435 SECOND ST W CORNWALL	279	0.0	0.0	0.0	1.5	5.5	23.5	2.2	91	11
56071	BERRYS FEED MILL SOUTH MOUNTAIN	280	0.0	0.0	0.0	1.5	8.3	40.3	3.2	114	24
61026	56 KING ST DRYDEN	92	0.0	0.0	0.0	0.0	2.7	23.6	1.3	187	13
61027	35 VAN HORNE AV DRYDEN	235	0.0	0.0	0.0	0.0	2.0	14.4	0.9	118	9
62032	CEMETERY,COLONIZATION RD W FORT FRANCES	314	0.0	0.0	0.0	0.0	5.4	22.3	1.9	74	15
62051	VICTORIA AV(BOISE CASCADE) FORT FRANCES	366	0.0	0.0	0.0	1.7	16.8	62.7	5.2	177	46
62052	262 CHURCH ST FORT FRANCES	332	0.0	0.0	0.0	0.6	8.8	33.1	2.8	98	30
63034	PENINSULA BLDG MARATHON	329	0.0	0.0	0.0	0.0	2.1	16.9	1.0	71	29
63046	CAN-CAR BLDG, MONTREAL ST THUNDER BAY	164	0.0	0.0	0.0	0.0	1.6	6.5	0.6	22	4
63084	RECREATION CENTRE RED ROCK	365	0.0	0.0	0.0	0.0	3.3	17.4	1.2	111	26
63090	ST MARTIN SCHOOL TERRACE BAY	331	0.0	0.0	0.0	0.0	2.8	20.0	1.2	99	11
63190	63090 BKUP TERRACE BAY	88	0.0	0.0	0.0	0.0	1.7	16.5	0.9	70	6
77029	POST OFFICE, SPRUCE/BARBER ST ESPANOLA	350	0.0	0.0	0.0	0.0	2.4	15.3	1.0	62	25

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - TOTAL REDUCED SULPHUR UNIT = PARTS/BILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
77203	SCIENCE NORTH SUDBURY	142	0.0	0.0	0.0	0.0	0.0	0.4	0.0	5	1

TABLE A-6 CARBON MONOXIDE (CO) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - CARBON MONOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	8HR	NO. OF TIMES ABOVE CRITERIA 1HR	8HR
12008	467 UNIVERSITY AV W WINDSOR	343	0.0	0.0	0.0	0.2	0.9	3.2	0.5	10	7	0	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	337	0.0	0.0	0.0	0.0	0.2	1.7	0.1	6	3	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	329	0.0	0.0	0.0	0.0	0.9	3.6	0.4	13	7	0	0
26029	EDNA/FREDERICK STS KITCHENER	352	0.0	0.0	0.3	0.7	1.6	4.0	0.9	10	6	0	0
27037	NORTH/GENEVA ST ST CATHARINES	340	0.0	0.0	0.0	0.0	0.8	2.8	0.4	10	5	0	0
29008	NORTH PARK HAMILTON	243	0.0	0.0	0.0	0.1	0.7	1.7	0.3	5	2	0	0
29025	BARTON/WENTWORTH HAMILTON	339	0.0	0.0	0.2	0.7	1.6	3.9	0.8	16	7	0	0
29102	467 BEACH BLVD HAMILTON	70	0.0	0.0	0.0	0.1	0.9	2.4	0.4	4	3	0	0
31049	MISSION, 381 YONGE ST TORONTO	359	0.9	1.6	2.4	3.5	6.1	14.6	3.6	29	22	0	10
31104	26 BREADALBANE TORONTO	360	0.0	0.1	0.4	0.8	1.4	3.3	1.0	8	5	0	0
31105	SHERBOURNE/WILTON STS TORONTO	359	0.0	0.2	0.6	1.0	1.8	3.8	1.2	11	6	0	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	347	0.0	0.0	0.3	0.7	1.3	3.8	0.8	10	5	0	0
33003	LAWRENCE/KENNEDY SCARBORO	360	0.0	0.4	0.8	1.3	2.0	4.4	1.4	13	7	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	361	0.1	0.3	0.6	0.9	1.8	3.7	1.3	7	5	0	0
34007	STADACONA/HWY 401 NORTH YORK	358	0.0	0.0	0.3	0.8	1.9	4.8	1.0	10	7	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - CARBON MONOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	8HR	NO. OF TIMES ABOVE CRITERIA 1HR	8HR
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	365	0.1	0.4	0.7	1.1	1.9	3.7	1.4	8	6	0	0
35033	EVANS/ARNOLD AV ETOBICOKE	353	0.0	0.3	0.6	0.9	1.9	4.2	1.3	11	8	0	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	366	0.0	0.1	0.4	0.7	1.2	2.9	0.9	7	4	0	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	357	0.0	0.0	0.4	0.7	1.3	3.7	0.9	11	5	0	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	354	0.0	0.6	1.2	1.8	2.9	5.3	1.8	14	8	0	0
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	348	0.1	0.4	0.7	1.0	1.9	4.8	1.4	16	7	0	0
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	361	0.0	0.0	0.0	0.0	0.7	2.4	0.3	9	5	0	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	356	0.0	0.0	0.0	0.0	0.4	2.0	0.2	13	10	0	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	326	0.0	0.1	0.5	0.9	2.0	4.5	1.2	14	8	0	0
77016	WATER TANK, ASH ST SUDBURY	351	0.0	0.0	0.0	0.0	0.0	1.7	0.1	8	5	0	0
77203	SCIENCE NORTH SUDBURY	146	0.0	0.0	0.0	0.5	1.1	2.8	0.7	14	6	0	0

TABLE A-7 TOTAL HYDROCARBON (THC) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - TOTAL HYDROCARBONS UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	310	1.35	1.97	2.08	2.28	2.72	4.84	2.29	7.2	5.6
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	349	1.57	1.74	1.89	2.06	2.51	3.86	2.04	10.5	3.3
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	351	2.24	2.52	2.72	2.97	3.48	5.59	2.89	8.9	4.5
31104	26 BREADALBANE TORONTO	355	1.38	1.59	1.75	1.95	2.40	3.49	1.89	5.5	3.4
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	347	1.51	1.67	1.81	2.01	2.51	4.11	1.99	8.9	4.3
33003	LAWRENCE/KENNEDY SCARBORO	363	1.54	1.74	1.92	2.16	2.64	3.98	2.08	6.9	3.7
34002	SC CTR, 770 DON MILLS RD NORTH YORK	353	1.51	1.83	2.07	2.31	2.83	4.14	2.19	18.7	3.7
34007	STADACONA/HWY 401 NORTH YORK	256	1.63	1.83	2.00	2.20	2.58	3.55	2.11	5.6	3.6
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	344	1.81	1.97	2.09	2.26	2.63	4.13	2.23	9.2	3.3
35033	EVANS/ARNOLD AV ETOBICOKE	356	1.73	1.92	2.07	2.30	2.79	4.00	2.24	6.7	4.7
44015	BRONTE RD/WOBURN CRES OAKVILLE	323	1.66	1.89	2.13	2.39	2.90	4.17	2.27	12.1	3.6

TABLE A-8 REACTIVE HYDROCARBON (RHC) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - REACTIVE HYDROCARBONS UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	312	0.15	0.23	0.30	0.38	0.64	1.26	0.40	2.5	1.1
22071	EXPERIMENTAL FARM SIMCOE	303	0.03	0.09	0.13	0.16	0.20	0.29	0.17	0.6	0.3
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	343	0.00	0.00	0.08	0.17	0.31	0.48	0.15	0.9	0.5
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	245	0.00	0.02	0.11	0.18	0.36	0.70	0.18	2.0	0.6
27037	NORTH/GENEVA ST ST CATHARINES	265	0.00	0.01	0.06	0.11	0.26	0.81	0.14	3.6	0.6
29008	NORTH PARK HAMILTON	259	0.04	0.12	0.15	0.18	0.25	0.45	0.20	0.9	0.5
29025	BARTON/WENTWORTH HAMILTON	346	0.02	0.06	0.12	0.18	0.38	1.44	0.23	5.9	1.6
29102	467 BEACH BLVD HAMILTON	44	0.09	0.15	0.20	0.26	0.34	0.49	0.26	0.9	0.5

TABLE A-9 NITROGEN DIOXIDE (NO_2) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NITROGEN DIOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	358	.003	.012	.020	.028	.042	.073	.027	.12	.09	0	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	329	.001	.008	.015	.024	.039	.065	.023	.12	.08	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	360	.003	.011	.018	.026	.038	.055	.024	.10	.06	0	0
22071	EXPERIMENTAL FARM SIMCOE	320	.000	.000	.003	.008	.017	.037	.009	.07	.04	0	0
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	351	.000	.000	.000	.001	.009	.025	.004	.07	.03	0	0
22901	PROVINCIAL PARK LONG POINT	347	.000	.000	.000	.000	.009	.027	.004	.14	.03	0	0
26029	EDNA/FREDERICK STS KITCHENER	366	.004	.014	.021	.029	.040	.059	.027	.10	.06	0	0
27037	NORTH/GENEVA ST ST CATHARINES	356	.000	.006	.012	.017	.028	.047	.018	.09	.05	0	0
29008	NORTH PARK HAMILTON	280	.000	.011	.022	.031	.047	.074	.027	.09	.07	0	0
29025	BARTON/WENTWORTH HAMILTON	357	.005	.015	.023	.031	.044	.065	.029	.11	.06	0	0
29102	467 BEACH BLVD HAMILTON	70	.001	.012	.018	.024	.030	.041	.022	.05	.04	0	0
31049	MISSION, 381 YONGE ST TORONTO	366	.015	.026	.034	.042	.055	.086	.040	.14	.08	0	0
31104	26 BREADALBANE TORONTO	359	.005	.014	.020	.028	.039	.060	.027	.13	.06	0	0
31105	SHERBOURNE/WILTON STS TORONTO	361	.007	.016	.024	.031	.044	.067	.030	.11	.07	0	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	358	.005	.018	.027	.036	.051	.080	.033	.13	.08	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NITROGEN DIOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR
33003	LAWRENCE/KENNEDY SCARBORO	359	.000	.005	.012	.019	.032	.052	.018	.09	.05	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	363	.004	.012	.019	.027	.039	.059	.026	.13	.06	0	0
34007	STADACONA/HWY 401 NORTH YORK	355	.003	.016	.028	.041	.062	.096	.036	.21	.09	1	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	353	.003	.010	.017	.025	.037	.058	.024	.11	.06	0	0
35033	EVANS/ARNOLD AV ETOBICOKE	362	.011	.021	.027	.035	.048	.075	.034	.12	.07	0	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	353	.002	.009	.015	.022	.033	.049	.022	.09	.05	0	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	356	.000	.005	.011	.019	.029	.048	.018	.10	.05	0	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	348	.000	.007	.014	.022	.035	.057	.021	.12	.05	0	0
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	358	.006	.014	.020	.027	.038	.058	.026	.10	.05	0	0
48002	HWY47/E OF HWY48 STOUFFVILLE	310	.000	.001	.005	.010	.022	.044	.012	.08	.05	0	0
49010	HWY 117/PAINT LAKE RD DORSET	67	.000	.000	.000	.007	.024	.079	.010	.18	.08	0	0
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	364	.000	.001	.007	.015	.027	.049	.014	.11	.06	0	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	354	.000	.000	.004	.009	.022	.049	.011	.11	.06	0	0
63100	HAWKEYE LAKE	155	.000	.000	.000	.000	.000	.003	.000	.07	.02	0	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	107	.002	.007	.012	.017	.025	.036	.018	.06	.03	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NITROGEN DIOXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR
77016	WATER TANK, ASH ST SUDBURY	312	.000	.000	.000	.004	.012	.030	.006	.43	.06	3	0
77202	HIGH FALLS	82	.000	.000	.000	.000	.003	.016	.002	.03	.02	0	0
77203	SCIENCE NORTH SUDBURY	147	.000	.002	.005	.009	.018	.035	.011	.12	.03	0	0

TABLE A-10 NITRIC OXIDE (NO) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NITRIC OXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	356	.000	.004	.014	.026	.054	.190	.028	0.53	0.20
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	342	.000	.000	.000	.004	.017	.084	.008	0.39	0.07
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	352	.000	.000	.001	.008	.040	.199	.017	0.68	0.14
22071	EXPERIMENTAL FARM SIMCOE	346	.000	.000	.000	.000	.012	.028	.005	0.07	0.03
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	353	.000	.000	.000	.000	.001	.017	.001	0.12	0.02
22901	PROVINCIAL PARK LONG POINT	349	.000	.000	.000	.000	.000	.014	.001	0.13	0.04
26029	EDNA/FREDERICK STS KITCHENER	366	.000	.002	.009	.035	.128	.386	.046	0.89	0.28
27037	NORTH/GENEVA ST ST CATHARINES	359	.000	.000	.006	.015	.030	.108	.016	0.44	0.12
29008	NORTH PARK HAMILTON	263	.000	.000	.034	.085	.157	.274	.062	0.52	0.22
29025	BARTON/WENTWORTH HAMILTON	366	.000	.000	.005	.010	.055	.224	.023	0.78	0.25
29102	467 BEACH BLVD HAMILTON	70	.000	.000	.016	.037	.086	.227	.035	0.40	0.12
31049	MISSION, 381 YONGE ST TORONTO	366	.010	.031	.055	.095	.184	.376	.085	0.94	0.33
31104	26 BREADALBANE TORONTO	361	.000	.000	.006	.017	.047	.155	.021	0.36	0.16
31105	SHERBOURNE/WILTON STS TORONTO	361	.000	.002	.013	.034	.086	.237	.035	0.54	0.21
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	347	.000	.001	.009	.021	.068	.285	.030	0.83	0.23

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NITRIC OXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
33003	LAWRENCE/KENNEDY SCARBORO	357	.000	.000	.010	.030	.079	.252	.033	0.85	0.22
34002	SC CTR, 770 DON MILLS RD NORTH YORK	361	.000	.001	.006	.015	.067	.258	.027	0.49	0.22
34007	STADACONA/HWY 401 NORTH YORK	346	.000	.000	.034	.120	.255	.491	.092	0.91	0.50
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	358	.000	.000	.003	.012	.064	.292	.026	0.77	0.27
35033	EVANS/ARNOLD AV ETOBICOKE	355	.000	.008	.027	.055	.129	.387	.056	0.86	0.27
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	344	.000	.002	.007	.017	.049	.249	.025	0.93	0.21
44015	BRONTE RD/WOBURN CRES OAKVILLE	356	.000	.000	.000	.008	.038	.206	.017	0.58	0.18
45025	PS, RITSON RD/OLIVE AV OSHAWA	334	.000	.000	.003	.018	.061	.194	.023	0.60	0.15
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	359	.000	.000	.004	.017	.069	.316	.028	0.85	0.22
48002	HWY47/E OF HWY48 STOUFFVILLE	318	.000	.000	.000	.000	.008	.046	.004	0.15	0.05
49010	HWY 117/PAINT LAKE RD DORSET	117	.000	.000	.000	.000	.005	.018	.002	0.03	0.02
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	364	.000	.000	.000	.005	.029	.131	.012	0.51	0.11
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	340	.000	.000	.000	.000	.010	.105	.007	0.60	0.13
63100	HAWKEYE LAKE	152	.000	.000	.000	.000	.008	.029	.002	0.05	0.03
71066	FARWELL PUMPHOUSE SAULT STE MARIE	110	.000	.002	.007	.017	.040	.133	.020	0.43	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NITRIC OXIDE UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
77016	WATER TANK, ASH ST SUDBURY	290	.000	.000	.000	.000	.011	.089	.007	0.38	0.10
77202	HIGH FALLS	82	.000	.000	.004	.009	.045	.133	.017	0.21	0.11
77203	SCIENCE NORTH SUDBURY	146	.000	.000	.004	.011	.028	.101	.014	0.48	0.10

TABLE A-11 TOTAL NITROGEN OXIDE (NOX) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NITROGEN OXIDES UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	348	.012	.026	.039	.055	.095	.243	.055	0.63	0.23
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	313	.001	.009	.019	.032	.059	.121	.031	0.38	0.10
15001	MRN FAIR GROUNDS, KING/RECTORY LONDON	359	.005	.015	.024	.039	.080	.242	.042	0.74	0.18
22071	EXPERIMENTAL FARM SIMCOE	311	.000	.000	.006	.013	.025	.053	.013	0.14	0.05
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	346	.000	.000	.000	.004	.014	.040	.006	0.13	0.04
22901	PROVINCIAL PARK LONG POINT	343	.000	.000	.000	.000	.010	.031	.004	0.08	0.04
26029	EDNA/FREDERICK STS KITCHENER	366	.008	.021	.037	.070	.168	.429	.074	0.94	0.33
27037	NORTH/GENEVA ST ST CATHARINES	351	.001	.011	.021	.036	.060	.143	.034	0.50	0.15
29008	NORTH PARK HAMILTON	272	.000	.016	.064	.126	.199	.338	.090	0.87	0.26
29025	BARTON/WENTWORTH HAMILTON	357	.005	.020	.034	.053	.099	.283	.053	0.87	0.30
29102	467 BEACH BLVD HAMILTON	70	.001	.019	.041	.065	.115	.261	.058	0.44	0.16
31049	MISSION, 381 YONGE ST TORONTO	366	.037	.065	.095	.140	.237	.444	.125	1.03	0.39
31104	26 BREADALBANE TORONTO	359	.008	.021	.032	.048	.087	.212	.048	0.43	0.22
31105	SHERBOURNE/WILTON STS TORONTO	359	.012	.028	.045	.069	.125	.287	.065	0.64	0.28
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	344	.011	.027	.043	.062	.118	.346	.064	0.91	0.31

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NITROGEN OXIDES UNIT = PARTS/MILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
33003	LAWRENCE/KENNEDY SCARBORO	356	.000	.010	.029	.054	.112	.298	.051	0.93	0.26
34002	SC CTR, 770 DON MILLS RD NORTH YORK	358	.007	.019	.031	.049	.104	.298	.053	0.55	0.26
34007	STADACONA/HWY 401 NORTH YORK	342	.004	.024	.075	.171	.308	.550	.129	0.98	0.57
35003	ELMCREST PD (CENTENNIAL PK) ETOBICOKE	353	.004	.015	.025	.043	.097	.296	.048	0.67	0.24
35033	EVANS/ARNOLD AV ETOBICOKE	353	.016	.038	.062	.094	.173	.446	.090	0.96	0.33
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	344	.005	.017	.028	.043	.084	.293	.046	0.98	0.24
44015	BRONTE RD/WOBURN CRES OAKVILLE	354	.000	.007	.017	.031	.071	.247	.035	0.64	0.23
45025	PS, RITSON RD/OLIVE AV OSHAWA	331	.001	.010	.024	.045	.097	.232	.044	0.67	0.18
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	357	.006	.018	.030	.049	.106	.358	.054	0.91	0.24
48002	HWY47/E OF HWY48 STOUFFVILLE	308	.000	.002	.006	.012	.029	.086	.015	0.19	0.08
49010	HWY 117/PAINT LAKE RD DORSET	158	.000	.000	.000	.002	.015	.054	.006	0.15	0.06
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	364	.000	.002	.009	.024	.059	.175	.026	0.57	0.16
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	333	.000	.000	.005	.012	.037	.146	.018	0.64	0.16
63100	HAWKEYE LAKE	152	.000	.000	.000	.000	.009	.035	.003	0.12	0.05
71066	FARWELL PUMPHOUSE SAULT STE MARIE	106	.006	.015	.024	.038	.067	.160	.038	0.46	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NITROGEN OXIDES UNIT = PARTS/MILLION

RUN DATE
JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR
77016	WATER TANK, ASH ST SUDBURY	241	.000	.000	.001	.008	.017	.043	.009	0.31	0.04
77202	HIGH FALLS	82	.000	.000	.005	.011	.046	.135	.018	0.22	0.12
77203	SCIENCE NORTH SUDBURY	145	.000	.006	.014	.024	.041	.135	.024	0.49	0.12

TABLE A-12 OZONE (O_3) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - OZONE UNIT = PARTS/BILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR
10001	COLLEGE OF AGRIC TECH HURON PARK	358	8.3	17.7	24.6	31.0	44.3	77.1	26.5	125	75	68
12008	467 UNIVERSITY AV W WINDSOR	358	0.3	6.0	13.4	22.7	42.8	88.2	18.9	143	70	139
13021	MOE WATER PUMP STN, MIDDLE RD MERLIN	337	4.9	13.0	19.3	25.3	36.7	63.3	21.0	87	55	5
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	352	2.4	12.8	21.7	29.5	42.2	79.4	23.3	125	68	80
14118	PUC BLDG, HWY 21 MANDAUMIN	317	7.3	16.1	22.8	29.1	46.6	87.8	25.9	130	77	128
14119	PUC BLDG THEDFORD	354	8.0	16.6	23.5	29.8	43.3	79.2	25.7	130	74	79
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	359	0.7	8.6	16.6	24.9	39.2	67.0	19.4	114	66	24
15013	PUC BLDG PARKHILL	310	7.8	17.3	25.4	33.2	44.7	78.2	27.0	129	73	63
18007	CONCESSION RD 2 LOT A TIVERTON	359	9.4	19.7	26.3	31.9	42.9	72.9	27.3	134	69	42
22071	EXPERIMENTAL FARM SIMCOE	361	8.6	18.4	25.9	33.6	51.2	84.0	28.7	115	78	122
22901	PROVINCIAL PARK LONG POINT	304	12.7	21.6	28.2	34.9	51.8	90.8	31.2	130	89	152
26029	EDNA/FREDERICK STS KITCHENER	351	0.0	7.5	15.4	23.9	37.7	67.8	18.3	90	66	6
27037	NORTH/GENEVA ST ST CATHARINES	335	1.4	10.0	17.7	25.7	40.0	68.9	20.3	113	73	19
29025	BARTON/WENTWORTH HAMILTON	344	0.9	7.0	14.1	22.5	38.7	67.4	18.0	95	59	7
31104	26 BREADALBANE TORONTO	331	0.3	5.3	12.0	21.2	38.9	74.6	17.1	130	55	45

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - OZONE UNIT = PARTS/BILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR
31105	SHERBOURNE/WILTON STS TORONTO	359	0.3	3.8	9.1	15.6	27.3	50.3	12.4	93	42	4
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	363	0.0	4.8	12.6	22.9	39.5	72.5	17.4	120	54	50
33003	LAWRENCE/KENNEDY SCARBORO	346	0.0	4.0	10.7	18.8	33.9	64.5	14.9	139	47	17
34002	SC CTR, 770 DON MILLS RD NORTH YORK	360	0.0	3.2	10.9	20.3	36.1	71.8	15.5	142	50	39
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	340	0.0	2.9	11.7	22.0	39.0	76.4	16.5	113	62	64
35033	EVANS/ARNOLD AV ETOBICOKE	356	0.0	2.7	7.9	14.9	29.6	61.3	12.4	90	48	7
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	356	0.0	8.0	16.6	25.1	41.7	86.8	20.4	162	90	124
44015	BRONTE RD/WOBURN CRES OAKVILLE	331	0.0	6.7	14.8	22.3	33.7	59.5	16.7	111	52	14
45025	PS, RITSON RD/OLIVE AV OSHAWA	337	0.6	7.4	15.6	22.8	32.8	60.0	17.1	85	43	2
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	340	0.0	5.2	12.7	20.1	33.4	61.8	15.4	111	53	10
47035	509 VICTORIA ST E ALLISTON	132	0.0	10.2	19.6	29.5	48.5	79.3	23.0	95	70	29
48002	HWY47/E OF HWY48 STOUFFVILLE	339	6.3	14.8	19.7	24.6	34.8	58.4	21.0	84	51	2
49010	HWY 117/PAINT LAKE RD DORSET	315	8.0	19.1	26.0	32.3	44.6	69.3	27.0	89	59	20
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	364	0.5	7.5	15.9	23.5	35.4	61.4	17.8	95	68	7
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	360	7.9	19.0	26.1	33.8	46.7	70.8	27.6	96	64	19

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - OZONE UNIT = PARTS/BILLION RUN DATE JUL 25, 1986

STATION NUMBER	LOCATION	NO OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR
59006	CITY HALL, 500 GEORGE ST PETERBORO	205	0.0	2.4	7.4	13.0	25.2	57.1	10.9	79	48	0
63040	435 JAMES ST S THUNDER BAY	338	0.0	6.6	15.4	22.0	30.2	42.4	15.7	58	39	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	191	0.8	4.8	8.9	14.0	21.9	37.7	11.0	66	31	0
77016	WATER TANK, ASH ST SUDBURY	297	4.4	9.7	13.7	18.5	27.2	51.1	15.8	70	50	0
77202	HIGH FALLS	83	4.9	13.4	20.8	26.4	32.3	51.8	20.6	72	32	0
77203	SCIENCE NORTH SUDBURY	122	7.7	17.2	23.1	28.8	35.8	57.5	23.6	88	62	9

TABLE A-13 TOTAL SUSPENDED PARTICULATE (TSP) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - SUSPENDED PARTICULATE UNIT - MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR	1-YR
10015	PUC BLDG, 64 WEST ST GODERICH	57	15	29	42	52	75	121	143	44	36	1	0
11001	309 THOMAS ST ST MARYS	61	19	28	45	58	96	215	252	53	43	5	0
12002	CITY HALL, 444 WINDSOR AV WINDSOR	57	29	39	51	68	78	108	115	54	50	0	0
12005	7730 RIVERSIDE DR E WINDSOR	53	22	31	38	47	63	102	124	42	38	1	0
12006	BEACH LANE/HWY 18 LA SALLE	58	31	41	49	58	71	103	115	51	48	0	0
12007	WRIGHT/WATER ST WINDSOR	28	45	52	66	78	106	134	137	72	67	2	INS
12008	467 UNIVERSITY AV W WINDSOR	344	32	46	55	76	99	148	255	64	57	18	0
12009	9725 RIVERSIDE DR E LITTLE RIVER	56	22	30	36	46	61	80	83	39	36	0	0
12010	SEWAGE STN, MANNING RD WINDSOR	56	16	27	32	43	61	80	104	37	33	0	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	58	36	45	59	90	136	207	208	76	66	8	1
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	50	47	59	75	103	142	192	203	88	79	11	1
12016	COLLEGE/SOUTH ST WINDSOR	120	34	42	53	68	93	155	174	59	53	4	0
12032	MORTON DOCK, BEDFORD/OJIBWAY WINDSOR	18	46	48	54	68	91	132	134	64	60	2	INS
12036	1802 GEORGE AV WINDSOR	55	31	41	51	58	74	108	127	53	49	1	0
12037	3225 CALIFORNIA ST WINDSOR	55	30	39	48	55	71	107	129	50	47	1	0
12039	DOUGALL/E.C. ROW W WINDSOR	56	29	40	50	62	82	106	107	53	50	0	0
12053	415 FRONT ST AMHERSTBURG	50	25	48	57	68	90	134	136	59	52	2	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	24	35	42	53	65	83	84	44	41	0	0
14001	GENERAL HOSPITAL, 220 MITTON ST SARNIA	55	18	29	41	51	75	85	86	42	38	0	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	332	20	28	36	49	68	111	160	42	37	2	0
14030	RR1 (W OF HOUSE) CORUNNA	55	17	27	35	48	70	87	101	39	34	0	0
14031	RR1 (W OF BARN) MOORETOWN	50	19	22	35	52	74	140	160	44	36	2	0
14054	SARNIA YACHT CLUB, POINT EDWARD SARNIA	56	17	30	42	56	73	126	129	46	40	2	0
14059	ST CLAIR BLVD/HWY 40 CORUNNA	57	16	24	37	49	64	73	76	38	33	0	0
14062	242 INDIAN RD S SARNIA	33	23	34	43	55	80	133	153	49	43	1	INS
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	26	37	46	57	75	88	94	48	45	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - SUSPENDED PARTICULATE UNIT - MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR	1-YR
14151	DAVID/FRONT ST SARNIA	59	21	32	46	62	89	114	119	52	45	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	55	30	43	55	72	102	175	182	63	55	3	0
15003	362 DUNDAS ST LONDON	57	24	32	43	57	72	109	146	47	42	1	0
15006	16 ALEXANDRIA ST ST THOMAS	58	29	42	54	75	154	238	261	72	59	7	0
15007	1012 TALBOT ST ST THOMAS	58	33	40	50	60	72	134	135	53	50	2	0
15008	EDGEWARE RD (NNW VARTA PLT) ST THOMAS	58	16	30	40	54	80	109	139	45	38	1	0
15009	LONGWOODS CONSERVATION AUTHORITY	73	21	29	37	44	64	133	301	42	36	1	0
17006	ST ANTHONY'S SS, HWY 2 BEACHVILLE	58	41	54	71	90	149	280	300	85	72	10	1
17020	HWY 2 RR 2 (J SPRIEL PROP) INGERSOLL	54	42	57	69	89	121	249	275	82	73	6	1
17021	OXFORD CTY RD 6 (HESSTON FARM) EMBRO	99	32	53	74	101	152	224	253	84	70	17	1
17206	ST ANTHONY'S SS, HWY2 BEACHVILLE	43	59	98	122	139	168	277	291	122	110	22	1
17306	ST ANTHONY'S SS, HWY2 BEACHVILLE	47	31	47	73	91	114	162	178	73	65	2	1
22071	EXPERIMENTAL FARM SIMCOE	56	16	25	38	46	73	195	396	47	36	1	0
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	54	17	27	36	45	65	260	494	47	36	2	0
22087	JARVIS COMMUNITY CENTRE,JAMES ST JARVIS	54	22	37	54	65	91	134	155	56	49	1	0
22090	ST GEORGE/ALMA PORT DOVER	51	22	31	39	52	71	83	92	43	39	0	0
22091	TOWNLINE RD/CON 13 TOWNSEND	50	18	27	39	51	60	123	172	42	36	1	0
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	62	18	24	31	38	58	101	165	36	32	1	0
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	50	33	44	59	76	103	212	307	67	58	2	0
22952	PEACOCK PROV PARK	56	18	25	32	42	54	95	133	36	32	1	0
22959	HWY 59 BIG CREEK WILDLIFE RESERVE	55	14	21	34	42	52	72	73	33	27	0	0
22960	MCKENZIE RD/H-N RD N JARVIS	49	25	35	44	53	63	176	353	50	43	1	0
22961	NANTICOKE RD/WALPOLE CON 2 NANTICOKE	55	21	27	38	52	73	157	223	47	40	1	0
22963	NANTICOKE RD/WALPOLE CON 4 NANTICOKE	16	19	22	27	36	42	47	48	30	28	0	INS
22964	N 2 KM NANTICOKE GS NANTICOKE	42	21	32	45	57	74	118	128	48	42	1	0
22965	HWY 6/NORFOLK CON 2 JARVIS	33	25	36	43	62	78	88	88	49	45	0	INS

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - SUSPENDED PARTICULATE UNIT - MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR	1-YR
26029	EDNA/FREDERICK STS KITCHENER	58	36	47	62	73	90	147	148	63	58	3	0
27008	71 KING ST ST CATHARINES	57	30	45	61	78	98	131	157	63	57	1	0
27009	NORTON/PORTAGE CHIPPAWA	51	40	59	71	90	137	190	202	81	73	7	1
27014	STANLEY/CHIPPAWA PKWY CHIPPAWA	57	28	43	54	64	83	124	125	56	51	2	0
27030	KILLALY E/JAMES ST PORT COLBORNE	53	27	39	51	62	81	119	130	54	49	1	0
27037	NORTH/GENEVA ST ST CATHARINES	54	33	45	57	74	97	176	200	64	58	2	0
27045	337 ALBERTA/DEVON ST WELLAND	55	37	44	59	70	89	141	172	62	58	1	0
27047	DAVIS/FRAZER PORT COLBORNE	56	28	43	63	77	99	132	134	64	57	3	0
27052	185 QUEEN ST S THOROLD	57	71	94	129	161	254	553	631	153	131	33	1
27053	FIRST AV/BRIDGE ST NIAGARA FALLS	55	42	58	75	104	147	218	248	87	76	14	1
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	55	49	73	108	142	215	296	296	120	103	24	1
27056	ALLENDALE AV NIAGARA FALLS	57	29	37	49	63	85	124	156	54	48	1	0
28025	FARQUHAR/WYNDHAM ST GUELPH	57	21	35	42	47	74	123	151	45	40	1	0
28027	HANLON EXPWY/SPEED RIVER GUELPH	57	32	48	60	79	141	275	291	76	63	9	1
29001	HUGHSON/HUNTER HAMILTON	57	44	60	76	91	120	204	209	83	75	6	1
29008	NORTH PARK HAMILTON	309	40	68	95	123	173	302	384	103	89	100	1
29009	KENILWORTH HAMILTON	58	39	50	64	78	101	217	316	71	63	3	1
29011	BURLINGTON/LEEDS HAMILTON	59	63	85	99	113	170	351	365	113	102	15	1
29012	BURLINGTON/WELLINGTON HAMILTON	57	44	69	82	106	127	211	237	88	80	10	1
29017	CHATHAM/FRID HAMILTON	58	50	70	88	106	137	299	356	98	87	14	1
29025	BARTON/WENTWORTH HAMILTON	331	44	63	79	103	154	244	332	91	81	70	1
29067	450 HUGHSON ST N HAMILTON	56	35	47	57	69	103	197	320	65	58	3	0
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	28	40	55	66	96	179	224	60	53	2	0
29087	405 CUMBERLAND AV HAMILTON	55	36	47	59	69	86	203	333	65	59	3	0
29089	BARTON/NASH RD HAMILTON	53	32	51	60	71	90	121	131	62	57	1	0
29090	WESTDALE LIB, KING ST W/S OVAL HAMILTON	55	45	55	66	75	99	186	249	70	65	2	1

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - SUSPENDED PARTICULATE UNIT - MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR	1-YR
29098	BAY/MAIN ST HAMILTON	56	29	41	50	68	94	156	168	62	55	5	0
31058	MOSLEY/LESLIE STS TORONTO	350	39	60	80	103	145	228	327	88	77	67	1
31064	17 BERKSHIRE AV TORONTO	251	32	44	59	75	102	168	330	65	58	13	0
31079	FIRE HALL, 1285 DUFFERIN ST TORONTO	340	35	46	54	67	96	124	194	60	55	4	0
31082	WORKS DEPT, 138 HAMILTON AV TORONTO	351	34	48	62	82	117	189	233	70	63	29	1
31084	MAYDWELL MFG, 65 SAULTER ST TORONTO	346	36	51	65	83	119	179	239	72	64	34	1
31085	TECUMSETH/NIAGARA ST TORONTO	344	43	60	73	94	132	199	261	81	74	46	1
31104	26 BREADALBANE TORONTO	357	31	42	53	68	98	174	245	60	54	11	0
31105	SHERBOURNE/WILTON STS TORONTO	116	45	66	89	110	185	275	428	101	87	30	1
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	94	27	39	45	53	76	116	155	50	45	1	0
31123	26 BREADALBANE TORONTO	21	32	51	65	95	138	178	186	79	69	5	INS
31181	60 BATHURST ST TORONTO	343	34	47	62	82	116	173	227	69	62	26	1
33003	LAWRENCE/KENNEDY SCARBORO	118	33	49	59	73	109	203	331	68	60	8	0
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	109	24	32	42	51	68	90	125	44	41	1	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	20	31	39	50	68	148	161	44	39	2	0
34007	STADACONA/HWY 401 NORTH YORK	110	28	44	55	71	96	165	194	61	55	5	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	24	36	49	59	78	153	164	51	46	4	0
35005	QUEENSWAY HOSPITAL ETOBICOKE	118	34	49	62	72	96	167	186	65	59	4	0
35033	EVANS/ARNOLD AV ETOBICOKE	120	36	48	62	81	99	138	217	67	59	7	0
35037	3050 LAKESHORE BLVD W ETOBICOKE	340	36	53	63	76	102	148	191	67	62	17	1
35051	RESOURCES RD (MOL LAB) ETOBICOKE	306	27	42	58	76	172	243	318	75	60	52	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	115	30	40	52	75	124	240	286	68	57	16	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	92	27	38	47	62	82	127	205	53	47	2	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	282	26	36	46	62	88	170	237	54	47	10	0
45003	MCDONALD PS, BALATON AV PICKERING	116	24	34	45	57	75	214	343	52	44	4	0
45005	SEWAGE PLT, LIVERPOOL RD S PICKERING	107	22	30	35	44	62	85	112	39	36	0	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - SUSPENDED PARTICULATE UNIT - MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR	1-YR
45006	SEWAGE PLT, LAKEDRIVE WAY AJAX	166	21	32	43	59	86	172	205	51	41	5	0
45007	AJAX-PICKERING HOSP AJAX	176	22	31	38	49	74	130	132	45	39	4	0
45008	SEWAGE PLT, SQUIRES BCH/MCKAY PICKERING	125	24	32	41	50	69	112	137	44	39	1	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	98	28	33	45	54	73	91	169	48	44	1	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	115	31	43	55	70	99	159	184	62	55	4	0
45060	HOPKINS ST S (LASCO) WHITBY	38	22	28	36	49	70	178	194	47	39	2	INS
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	40	53	63	87	129	177	186	76	68	5	1
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	34	49	64	98	133	171	178	77	66	6	INS
46041	2414 DIXIE RD MISSISSAUGA	338	35	50	61	83	110	171	242	69	62	13	1
46045	2365 DIXIE RD MISSISSAUGA	340	35	50	63	77	101	147	229	67	61	15	1
46046	2360 DIXIE RD MISSISSAUGA	341	32	49	58	73	94	138	255	63	58	9	0
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	116	34	51	61	72	101	182	328	68	61	7	1
47019	POST OFFICE, 17-25 PETER ST S ORILLIA	55	22	29	42	54	90	170	197	51	43	4	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	102	18	27	35	47	72	109	185	42	36	1	0
48002	HWY47/E OF HWY48 STOUFFVILLE	114	19	28	38	48	64	114	141	41	36	1	0
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	46	19	25	31	44	63	108	132	38	34	1	0
51018	55 QUEEN ST OTTAWA	46	17	25	34	48	69	104	107	40	34	0	0
54013	POST OFFICE BLDG BELLEVILLE	37	26	36	49	59	91	160	202	55	47	1	INS
56006	4 MONTREAL RD CORNWALL	51	26	34	41	49	74	119	122	47	43	1	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	27	37	48	55	80	173	188	52	46	2	0
58027	51 SHUTER ST PORT HOPE	42	26	37	44	56	76	105	105	50	46	0	0
58041	FILT PLT, MARSH ST PORT HOPE	64	21	36	44	59	95	168	177	55	46	5	0
58042	CAN TIRE, QUEEN ST PORT HOPE	70	25	36	44	67	93	143	164	56	49	4	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	113	23	30	40	50	88	190	209	49	42	4	0
62013	WEATHER STN ATIKOKAN	55	9	18	24	38	51	72	78	28	23	0	0
62032	CEMETERY,COLONIZATION RD W FORT FRANCES	54	13	26	34	45	73	128	165	40	32	1	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - SUSPENDED PARTICULATE UNIT - MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR	1-YR
62035	LEGION BLDG, 250 CHURCH ST FORT FRANCES	53	24	41	53	81	134	204	211	70	56	7	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	22	30	38	56	112	168	175	53	44	4	0
63012	DAWSON CT/ALGOMA ST N THUNDER BAY	53	15	23	29	43	66	121	156	38	32	1	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	54	18	26	35	48	69	109	111	41	36	0	0
63040	435 JAMES ST S THUNDER BAY	52	19	24	34	45	53	91	97	36	32	0	0
63046	CAN-CAR BLDG, MONTREAL ST THUNDER BAY	33	22	36	44	55	85	155	188	51	43	1	INS
63052	TRNSIT MAINT BD, WILLIAM RD THUNDER BAY	56	21	35	51	73	143	177	179	65	51	9	0
63070	CENTENNIAL DR (SEWAGE T PLT) LONGLAC	20	15	20	27	43	99	129	136	42	31	1	INS
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	39	59	92	145	256	349	386	126	96	22	1
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	18	30	37	48	59	80	80	40	37	0	0
71053	DENISON TOWNSITE ELLIOT LAKE	16	2	6	13	19	24	45	49	15	10	0	INS
71062	PORRIDGE LAKE SUBDIVISION ELLIOT LAKE	7	12	15	19	21	27	29	29	19	18	0	INS
71065	HOSPITAL, LAKESHORE AV BLIND RIVER	39	13	19	23	27	46	88	105	27	24	0	INS
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	24	37	54	72	105	174	292	61	52	6	0
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	17	26	33	47	91	149	169	45	36	2	0
75010	OPP STN NORTH BAY	47	19	26	38	47	70	112	112	42	37	0	0
77016	WATER TANK, ASH ST SUDBURY	84	16	23	28	35	50	78	101	32	28	0	0
77026	19 LISGAR ST SUDBURY	36	22	27	34	40	60	84	91	38	34	0	INS
77029	POST OFFICE, SPRUCE/BARBER ST ESPANOLA	42	27	32	42	53	82	121	123	50	45	1	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	24	30	39	50	78	237	292	52	42	4	0
77076	POST OFFICE FALCONBRIDGE	2	13	14	15	16	17	18	18	16	15	0	INS

TABLE A-14 LEAD (Pb) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - LEAD UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	57	1	1	1	1	2	4	6	1	1	0
12005	7730 RIVERSIDE DR E WINDSOR	53	1	1	1	2	2	5	7	2	1	0
12008	467 UNIVERSITY AV W WINDSOR	345	1	2	2	3	5	8	11	3	2	0
12009	9725 RIVERSIDE DR E LITTLE RIVER	56	1	1	1	1	1	4	5	1	1	0
12010	SEWAGE STN, MANNING RD WINDSOR	32	1	1	1	2	3	7	7	2	1	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	58	1	1	2	2	3	5	6	2	2	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	47	1	2	2	3	3	9	10	2	2	0
12016	COLLEGE/SOUTH ST WINDSOR	68	1	2	2	3	5	9	11	3	2	0
12032	MORTON DOCK, BEDFORD/OJIBWAY WINDSOR	18	1	1	1	1	1	1	1	1	1	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	1	1	2	2	4	18	27	3	2	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	332	1	1	1	1	1	2	3	1	1	0
14030	RR1 (W OF HOUSE) CORUNNA	55	1	1	1	1	2	3	4	1	1	0
14031	RR1 (W OF BARN) MOORETOWN	50	1	1	1	1	1	1	1	1	1	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	1	1	1	2	3	4	4	2	1	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	53	2	3	3	3	6	8	10	3	3	0
15003	362 DUNDAS ST LONDON	57	1	1	1	2	3	3	4	2	1	0
15008	EDGEWARE RD (NNW VARTA PLT) ST THOMAS	56	1	1	1	2	3	5	6	2	2	0
15009	LONGWOODS CONSERVATION AUTHORITY	73	1	1	1	1	1	1	2	1	1	0
22071	EXPERIMENTAL FARM SIMCOE	56	1	1	1	1	1	1	1	1	1	0
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	35	1	1	1	1	1	2	2	1	1	0
26029	EDNA/FREDERICK STS KITCHENER	58	2	4	6	8	14	23	31	7	5	0
27008	71 KING ST ST CATHARINES	57	1	1	2	3	4	5	6	2	2	0
27037	NORTH/GENEVA ST ST CATHARINES	54	1	1	2	3	4	7	8	3	2	0
28025	FARQUHAR/WYNDHAM ST GUELPH	57	1	1	2	2	3	7	8	2	2	0
29001	HUGHSON/HUNTER HAMILTON	57	2	3	4	5	8	10	11	4	4	0
29008	NORTH PARK HAMILTON	109	1	4	6	7	10	13	14	6	5	0

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
29011	BURLINGTON/LEEDS HAMILTON	59	2	3	3	5	6	8	9	4	4	0
29012	BURLINGTON/WELLINGTON HAMILTON	57	1	2	2	3	5	8	8	3	2	0
29017	CHATHAM/FRID HAMILTON	58	2	2	3	4	6	15	19	4	3	0
29025	BARTON/WENTWORTH HAMILTON	132	2	4	4	6	9	18	22	5	4	0
29067	450 HUGHSON ST N HAMILTON	56	1	1	2	2	5	6	6	2	2	0
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	1	2	2	3	4	8	8	3	2	0
31058	MOSLEY/LESLIE STS TORONTO	350	2	4	7	13	24	49	90	11	7	3
31064	17 BERKSHIRE AV TORONTO	249	1	3	5	10	15	24	36	7	5	0
31079	FIRE HALL, 1285 DUFFERIN ST TORONTO	340	1	3	4	5	8	15	21	5	4	0
31082	WORKS DEPT, 138 HAMILTON AV TORONTO	351	2	3	5	7	11	19	25	6	4	0
31084	MAYDWELL MFG, 65 SAULTER ST TORONTO	346	1	3	4	5	8	16	37	4	4	0
31085	TECUMSETH/NIAGARA ST TORONTO	345	4	8	13	21	36	79	313	18	13	17
31104	26 BREADALBANE TORONTO	357	2	2	3	4	5	8	11	3	3	0
31105	SHERBOURNE/WILTON STS TORONTO	116	2	4	6	9	11	22	26	7	5	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	94	1	1	2	3	6	14	14	3	2	0
31123	26 BREADALBANE TORONTO	21	2	2	2	3	4	6	6	3	2	0
31181	60 BATHURST ST TORONTO	343	2	3	5	9	15	32	49	8	5	0
33003	LAWRENCE/KENNEDY SCARBORO	118	2	3	4	5	7	13	13	4	4	0
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	108	1	1	1	2	3	6	6	2	2	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	1	2	2	3	6	8	10	3	2	0
34007	STADACONA/HWY 401 NORTH YORK	110	2	4	6	10	14	17	18	7	6	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	1	2	2	3	5	10	13	3	2	0
35033	EVANS/ARNOLD AV ETOBICOKE	120	2	4	5	7	9	16	20	6	5	0
35037	3050 LAKESHORE BLVD W ETOBICOKE	340	1	2	2	3	5	9	23	3	2	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	1	1	2	3	4	7	8	2	2	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	92	1	1	2	2	3	5	6	2	2	0

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
45001	FIRE HALL, BAYLY/BROCK PICKERING	328	1	2	2	3	5	11	17	3	2	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	97	1	1	2	2	3	4	5	2	2	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	116	1	2	3	4	6	8	11	3	3	0
45060	HOPKINS ST S (LASCO) WHITBY	37	1	1	2	3	19	66	79	7	3	1
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	2	2	3	4	7	10	10	4	3	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	1	2	2	4	6	8	8	3	2	0
46041	2414 DIXIE RD MISSISSAUGA	338	4	9	17	29	71	159	216	28	16	55
46045	2365 DIXIE RD MISSISSAUGA	340	2	5	8	14	30	76	110	13	8	6
46046	2360 DIXIE RD MISSISSAUGA	341	3	9	16	29	61	134	257	26	15	50
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	116	1	2	3	5	8	11	11	4	3	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	103	1	1	2	2	4	5	5	2	2	0
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	46	1	1	1	2	3	4	4	2	1	0
54013	POST OFFICE BLDG BELLEVILLE	36	1	1	2	2	3	9	12	2	2	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	1	1	1	2	3	8	14	2	1	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	114	1	2	2	3	4	10	11	3	2	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	1	1	2	2	4	9	10	2	2	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	56	1	1	1	2	3	5	6	2	2	0
63040	435 JAMES ST S THUNDER BAY	53	1	1	1	1	2	7	11	1	1	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	1	1	1	2	2	3	3	1	1	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	1	1	2	2	3	5	7	2	2	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	1	2	2	3	4	6	6	2	2	0
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	1	1	1	2	3	4	4	2	1	0
75010	OPP STN NORTH BAY	47	1	1	1	2	3	8	10	2	1	0
77016	WATER TANK, ASH ST SUDBURY	84	1	1	1	2	3	5	7	2	1	0
77026	19 LISGAR ST SUDBURY	36	1	1	2	2	3	5	5	2	2	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	1	1	1	2	4	12	13	2	2	0

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
77076	POST OFFICE FALCONBRIDGE	2	1	1	1	1	1	1	1	1	1	0

TABLE A-15 CADMIUM (Cd) STATISTICS (1984)

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YEAR - 1984 POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	34	1	1	1	3	5	10	12	2	1	0
12005	7730 RIVERSIDE DR E WINDSOR	53	1	1	1	1	3	4	5	1	1	0
12008	467 UNIVERSITY AV W WINDSOR	344	1	1	2	3	8	19	31	3	2	0
12010	SEWAGE STN, MANNING RD WINDSOR	32	1	1	1	2	3	4	4	1	1	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	58	1	1	1	2	5	8	8	2	1	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	47	1	1	2	4	6	18	27	3	2	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	1	1	1	1	2	3	3	1	1	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	332	1	1	1	1	1	4	6	1	1	0
14030	RR1 (W OF HOUSE) CORUNNA	55	1	1	1	1	1	2	2	1	1	0
14031	RR1 (W OF BARN) MOORETOWN	50	1	1	1	1	1	2	2	1	1	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	1	1	1	1	1	2	2	1	1	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	53	1	1	1	1	2	4	4	1	1	0
15009	LONGWOODS CONSERVATION AUTHORITY	73	1	1	1	1	1	4	16	1	1	0
22071	EXPERIMENTAL FARM SIMCOE	56	1	1	1	1	1	2	2	1	0	0
26029	EDNA/FREDERICK STS KITCHENER	58	1	1	1	1	1	2	3	1	1	0
27008	71 KING ST ST CATHARINES	57	1	1	1	1	2	2	2	1	1	0
29001	HUGHSON/HUNTER HAMILTON	57	1	1	1	3	4	6	6	2	2	0
29008	NORTH PARK HAMILTON	109	1	1	1	2	3	5	5	1	1	0
29011	BURLINGTON/LEEDS HAMILTON	59	1	1	2	3	5	15	15	3	2	0
29012	BURLINGTON/WELLINGTON HAMILTON	57	1	1	1	2	3	8	10	2	1	0
29017	CHATHAM/FRID HAMILTON	58	1	1	1	1	2	3	3	1	1	0
29025	BARTON/WENTWORTH HAMILTON	131	1	1	2	3	6	19	23	3	2	0
29067	450 HUGHSON ST N HAMILTON	56	1	1	1	1	2	5	5	1	1	0
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	1	1	1	1	2	4	7	1	1	0
31058	MOSLEY/LESLIE STS TORONTO	347	1	1	2	4	8	33	66	4	2	0
31064	17 BERKSHIRE AV TORONTO	246	1	1	2	3	6	16	43	3	2	0

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
31104	26 BREADALBANE TORONTO	357	1	1	1	2	4	7	11	2	1	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	94	1	1	1	1	3	9	15	1	1	0
31123	26 BREADALBANE TORONTO	21	1	1	1	2	3	6	6	2	1	0
33003	LAWRENCE/KENNEDY SCARBORO	118	1	1	1	2	3	10	11	2	1	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	1	1	1	1	3	8	10	1	1	0
34007	STADACONA/HWY 401 NORTH YORK	110	1	1	1	1	2	4	4	1	1	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	1	1	1	1	2	4	5	1	1	0
35033	EVANS/ARNOLD AV ETOBICOKE	120	1	1	2	2	4	9	30	2	1	0
35037	3050 LAKESHORE BLVD W ETOBICOKE	340	1	2	4	11	56	203	343	20	5	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	1	1	1	1	2	3	4	1	1	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	92	1	1	1	1	2	7	10	1	1	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	328	1	1	1	1	2	6	21	1	1	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	98	1	1	1	1	1	3	3	1	0	0
45060	HOPKINS ST S (LASCO) WHITBY	37	1	1	1	4	17	102	120	10	2	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	1	1	1	1	2	4	4	1	1	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	1	1	1	1	2	3	3	1	0	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	103	1	1	1	1	1	2	2	1	0	0
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	46	1	1	1	1	1	2	2	1	1	0
54013	POST OFFICE BLDG BELLEVILLE	36	1	1	1	1	1	9	15	1	1	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	1	1	1	1	2	9	16	1	1	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	113	1	1	1	1	1	2	15	1	0	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	1	1	1	1	1	2	3	0	0	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	55	1	1	1	1	1	3	5	1	1	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	1	1	1	1	2	5	7	1	1	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	1	1	1	1	2	3	3	1	1	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	1	1	1	1	2	8	60	1	0	0

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	1	1	1	1	1	2	2	1	0	0
75010	OPP STN NORTH BAY	47	1	1	1	1	2	5	8	1	1	0
77016	WATER TANK, ASH ST SUDBURY	84	1	1	1	2	7	16	24	3	1	0
77026	19 LISGAR ST SUDBURY	36	1	1	1	2	3	6	6	1	1	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	1	1	1	2	9	40	68	4	1	0
77076	POST OFFICE FALCONBRIDGE	2	3	6	11	21	42	57	59	31	11	0

TABLE A-16 CHROMIUM (Cr) STATISTICS (1984)

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	34	1	1	1	9	9	9	9	4	1	0
12005	7730 RIVERSIDE DR E WINDSOR	53	1	1	1	9	11	23	34	4	1	0
12008	467 UNIVERSITY AV W WINDSOR	343	1	1	1	9	10	22	117	5	1	0
12010	SEWAGE STN, MANNING RD WINDSOR	32	1	1	1	9	9	21	24	4	1	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	58	1	1	6	10	20	46	56	8	2	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	47	1	1	3	9	14	19	19	6	2	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	1	1	5	6	14	29	38	6	2	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	332	1	1	1	5	8	14	38	3	1	0
14030	RR1 (W OF HOUSE) CORUNNA	55	1	1	6	6	10	26	33	5	2	0
14031	RR1 (W OF BARN) MOORETOWN	50	1	1	1	6	10	27	32	4	1	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	1	1	1	4	6	14	15	2	1	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	53	1	1	6	9	13	17	17	5	1	0
15009	LONGWOODS CONSERVATION AUTHORITY	73	1	1	1	5	6	10	12	3	1	0
22071	EXPERIMENTAL FARM SIMCOE	56	1	1	1	6	9	22	24	3	1	0
26029	EDNA/FREDERICK STS KITCHENER	58	1	1	1	6	8	12	14	3	1	0
27008	71 KING ST ST CATHARINES	57	1	1	5	6	11	16	17	4	1	0
29001	HUGHSON/HUNTER HAMILTON	57	1	1	5	7	19	48	60	7	2	0
29008	NORTH PARK HAMILTON	109	1	9	12	18	31	55	68	15	7	0
29011	BURLINGTON/LEEDS HAMILTON	59	6	15	20	26	40	124	219	25	14	0
29012	BURLINGTON/WELLINGTON HAMILTON	57	1	1	7	12	18	49	50	9	3	0
29017	CHATHAM/FRID HAMILTON	58	1	5	8	10	17	53	57	10	4	0
29025	BARTON/WENTWORTH HAMILTON	131	1	6	10	16	44	106	135	18	7	0
29067	450 HUGHSON ST N HAMILTON	56	1	1	6	9	18	26	27	7	2	0
29085	UPPER WELLINGTON/INVERNESS HAMILTON	57	1	1	1	6	14	27	34	5	1	0
31058	MOSLEY/LESLIE STS TORONTO	347	1	1	9	12	21	56	96	9	2	0
31064	17 BERKSHIRE AV TORONTO	246	1	1	9	15	27	58	67	11	3	0

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
31104	26 BREADALBANE TORONTO	357	1	1	1	9	17	28	50	6	1	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	92	1	1	1	9	13	24	27	5	1	0
31123	26 BREADALBANE TORONTO	21	1	1	1	1	1	12	22	1	0	0
33003	LAWRENCE/KENNEDY SCARBORO	118	1	1	1	9	12	24	29	5	1	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	112	1	1	1	1	9	13	14	3	1	0
34007	STADACONA/HWY 401 NORTH YORK	105	1	1	1	2	9	15	26	3	1	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	117	1	1	1	9	11	18	20	4	1	0
35033	EVANS/ARNOLD AV ETOBICOKE	120	1	1	1	9	11	19	25	4	1	0
35037	3050 LAKESHORE BLVD W ETOBICOKE	340	1	1	9	15	24	62	148	12	4	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	1	1	1	9	14	38	42	5	1	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	92	1	1	1	1	11	17	17	3	1	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	328	1	1	5	6	8	14	32	4	1	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	97	1	1	1	9	11	17	19	4	1	0
45060	HOPKINS ST S (LASCO) WHITBY	37	1	1	3	17	55	206	235	24	3	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	1	1	1	1	1	15	16	1	0	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	1	1	1	1	1	17	21	1	0	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	103	1	1	1	1	9	15	17	3	1	0
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	46	1	1	1	1	5	8	9	2	1	0
54013	POST OFFICE BLDG BELLEVILLE	36	1	1	1	3	6	13	16	2	1	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	1	1	6	7	7	15	16	4	2	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	115	1	1	1	9	9	13	16	4	1	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	1	1	1	6	9	15	16	3	1	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	55	1	1	1	6	9	13	14	4	1	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	1	1	1	10	18	37	43	7	1	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	1	1	1	4	9	14	15	3	1	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	1	1	1	9	16	46	54	6	1	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
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YEAR - 1984 POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	1	1	1	1	11	19	19	3	1	0
75010	OPP STN NORTH BAY	47	1	1	1	1	9	12	15	3	1	0
77016	WATER TANK, ASH ST SUDBURY	84	1	1	1	9	12	27	48	5	1	0
77026	19 LISGAR ST SUDBURY	36	1	1	1	9	10	35	55	5	1	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	1	1	1	9	16	25	32	6	1	0
77076	POST OFFICE FALCONBRIDGE	2	1	1	1	1	1	1	0	0	0	0

TABLE A-17 COPPER (Cu) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE UNIT - .01 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	34	2	4	5	6	8	9	10	5	5	0
12005	7730 RIVERSIDE DR E WINDSOR	53	1	2	2	3	4	8	9	2	2	0
12008	467 UNIVERSITY AV W WINDSOR	344	3	5	8	13	62	165	224	21	9	0
12010	SEWAGE STN, MANNING RD WINDSOR	32	2	4	5	6	7	9	9	5	4	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	58	5	6	7	9	13	20	26	8	8	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	47	5	6	15	27	52	78	78	22	15	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	5	7	9	12	30	48	48	13	10	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	332	7	16	31	53	93	205	291	43	27	0
14030	RR1 (N OF HOUSE) CORUNNA	55	8	12	16	22	30	41	49	18	16	0
14031	RR1 (W OF BARN) MOORETOWN	50	6	9	11	19	25	33	37	14	12	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	4	7	9	69	106	175	200	40	17	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	53	9	15	20	26	49	145	306	29	21	0
15009	LONGWOODS CONSERVATION AUTHORITY	73	10	18	27	34	65	88	101	32	26	0
22071	EXPERIMENTAL FARM SIMCOE	56	4	5	7	8	14	35	60	9	7	0
26029	EDNA/FREDERICK STS KITCHENER	58	8	12	15	18	23	31	38	16	14	0
27008	71 KING ST ST CATHARINES	57	10	21	28	33	42	82	109	28	24	0
29001	HUGHSON/HUNTER HAMILTON	57	14	19	22	27	41	63	63	25	23	0
29008	NORTH PARK HAMILTON	109	11	21	30	46	73	215	287	43	31	0
29011	BURLINGTON/LEEDS HAMILTON	59	10	13	18	25	30	39	43	19	18	0
29012	BURLINGTON/WELLINGTON HAMILTON	57	13	19	24	31	45	66	69	27	23	0
29017	CHATHAM/FRID HAMILTON	58	8	9	14	26	35	48	55	19	16	0
29025	BARTON/WENTWORTH HAMILTON	131	13	21	27	42	74	200	290	40	30	0
29067	450 HUGHSON ST N HAMILTON	56	10	14	17	20	22	29	30	17	16	0
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	10	16	22	28	33	44	45	22	20	0
31058	MOSLEY/LESLIE STS TORONTO	347	6	11	16	23	36	86	278	21	16	0
31064	17 BERKSHIRE AV TORONTO	246	10	15	22	28	38	54	68	23	20	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE UNIT - .01 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
31104	26 BREADALBANE TORONTO	357	6	11	16	24	36	60	90	19	15	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	94	7	13	17	25	37	56	62	21	17	0
31123	26 BREADALBANE TORONTO	21	7	12	17	23	28	52	58	19	16	0
33003	LAWRENCE/KENNEDY SCARBORO	118	5	9	13	19	26	34	54	15	12	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	12	18	21	26	32	39	245	24	20	0
34007	STADACONA/HWY 401 NORTH YORK	110	5	8	10	14	18	29	71	12	10	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	10	16	26	33	47	67	71	27	23	0
35033	EVANS/ARNOLD AV ETOBICOKE	120	4	9	11	14	21	31	46	12	10	0
35037	3050 LAKESHORE BLVD W ETOBICOKE	340	8	13	18	26	40	83	222	22	18	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	5	7	11	17	27	38	46	14	11	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	92	4	7	15	21	30	44	50	16	12	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	328	8	15	21	33	61	139	177	31	23	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	98	6	8	11	15	23	41	44	13	11	0
45060	HOPKINS ST S (LASCO) WHITBY	37	1	3	4	6	10	38	40	7	4	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	3	7	11	17	25	35	36	13	10	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	4	12	24	32	51	71	75	25	18	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	103	11	17	21	27	37	56	69	23	21	0
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	46	22	28	37	45	58	87	95	40	37	0
54013	POST OFFICE BLDG BELLEVILLE	36	13	30	35	41	51	59	60	35	31	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	18	22	24	29	36	77	77	28	26	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	114	5	11	14	20	34	45	66	17	13	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	12	15	19	22	31	104	104	23	19	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	55	9	14	16	21	29	50	53	19	17	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	2	6	9	13	19	25	27	10	8	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	6	13	17	19	29	49	53	18	14	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	7	12	14	17	21	31	34	14	13	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE UNIT - .01 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	4	5	6	7	12	27	27	8	6	0
75010	OPP STN NORTH BAY	47	6	17	27	35	45	73	81	26	20	0
77016	WATER TANK, ASH ST SUDBURY	84	10	21	31	47	73	135	226	40	30	0
77026	19 LISGAR ST SUDBURY	36	8	24	28	38	58	120	140	34	27	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	16	31	46	61	90	218	226	55	41	0
77076	POST OFFICE FALCONBRIDGE	2	10	11	11	12	13	13	13	12	11	0

TABLE A-18 IRON (Fe) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 28, 1986

YEAR - 1984 POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
12002	CITY HALL, 444 WINDSOR AV WINDSOR	34	5	7	12	17	24	36	39	14	11
12005	7730 RIVERSIDE DR E WINDSOR	53	3	4	5	10	15	24	25	8	6
12008	467 UNIVERSITY AV W WINDSOR	344	5	8	13	19	29	50	59	15	12
12010	SEWAGE STN, MANNING RD WINDSOR	32	2	3	4	6	7	10	10	4	4
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	58	6	10	21	50	85	191	222	39	23
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	47	8	13	18	35	46	75	80	25	20
12016	COLLEGE/SOUTH ST WINDSOR	120	2	6	11	19	29	49	60	14	9
12032	HORTON DOCK, BEDFORD/OJIBWAY WINDSOR	18	6	9	10	15	22	32	33	13	12
12039	DOUGALL/E.C. ROW W WINDSOR	56	4	7	11	16	60	141	248	23	12
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	2	4	6	8	12	49	59	8	5
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	332	2	3	4	6	9	19	27	5	4
14030	RR1 (W OF HOUSE) CORUNNA	55	1	2	3	5	9	19	20	4	3
14031	RR1 (W OF BARN) MOORETOWN	50	1	2	3	6	12	17	19	5	3
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	2	3	4	6	9	13	17	5	4
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	53	3	4	7	11	15	22	23	8	6
15009	LONGWOODS CONSERVATION AUTHORITY	73	1	2	3	5	9	54	76	6	3
22071	EXPERIMENTAL FARM SIMCOE	56	1	2	4	5	7	41	118	6	3
26029	EDNA/FREDERICK STS KITCHENER	58	3	5	6	9	11	28	40	8	6
27008	71 KING ST ST CATHARINES	57	4	6	7	10	15	27	40	9	7
29001	HUGHSON/HUNTER HAMILTON	57	8	11	16	25	91	114	114	29	19
29008	NORTH PARK HAMILTON	109	7	21	35	51	90	138	145	43	30
29011	BURLINGTON/LEEDS HAMILTON	59	21	37	52	69	130	173	183	63	51
29012	BURLINGTON/WELLINGTON HAMILTON	57	8	11	18	29	50	85	102	25	19
29017	CHATHAM/FRID HAMILTON	58	9	14	22	31	70	94	98	29	22
29025	BARTON/WENTWORTH HAMILTON	129	7	14	23	42	80	128	151	35	23
29067	450 HUGHSON ST N HAMILTON	56	6	9	12	21	46	90	99	20	13

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

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YEAR - 1984 POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	3	6	8	15	52	84	95	19	11
31058	MOSLEY/LESLIE STS TORONTO	347	5	9	14	21	38	70	99	18	14
31064	17 BERKSHIRE AV TORONTO	246	4	7	10	17	26	56	74	14	10
31104	26 BREADALBANE TORONTO	357	4	6	8	12	17	31	67	10	8
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	94	3	5	6	9	16	26	34	8	6
31123	26 BREADALBANE TORONTO	21	1	4	6	12	18	22	22	8	4
33003	LAWRENCE/KENNEDY SCARBORO	118	3	6	8	10	15	37	55	9	7
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	2	4	5	7	11	25	42	6	5
34007	STADACONA/HWY 401 NORTH YORK	110	3	5	7	9	16	41	44	9	6
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	2	4	6	8	11	29	43	7	5
35033	EVANS/ARNOLD AV ETOBICOKE	120	4	6	8	12	19	34	39	10	8
35037	3050 LAKESHORE BLVD W ETOBICOKE	340	4	7	10	13	20	31	101	11	9
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	3	6	8	16	27	45	71	12	8
44015	BRONTE RD/WOBURN CRES OAKVILLE	92	1	3	5	7	12	30	69	7	4
45001	FIRE HALL, BAYLY/BROCK PICKERING	328	3	4	7	9	13	28	121	8	6
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	98	1	4	6	8	12	26	54	7	4
45060	HOPKINS ST S (LASCO) WHITBY	37	4	5	8	23	73	153	161	28	12
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	4	6	10	12	18	29	29	11	9
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	1	5	8	13	19	28	29	10	5
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	103	1	2	3	5	9	20	30	4	2
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	46	1	2	3	5	7	16	27	4	3
54013	POST OFFICE BLDG BELLEVILLE	36	2	5	6	7	15	47	60	9	5
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	2	3	4	6	10	34	39	6	5
59006	CITY HALL, 500 GEORGE ST PETERBORO	114	1	3	4	6	9	30	52	5	3
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	3	8	14	19	47	71	76	19	12
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	56	1	4	8	12	21	35	44	10	6

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YEAR - 1984 POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	22	30	49	95	190	383	394	85	55
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	2	6	11	16	24	33	34	12	7
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	5	10	16	27	46	112	159	23	14
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	2	4	6	9	18	44	53	9	5
75010	OPP STN NORTH BAY	47	1	2	4	6	10	18	20	5	3
77016	WATER TANK, ASH ST SUDBURY	84	2	4	6	9	17	33	78	8	5
77026	19 LISGAR ST SUDBURY	36	3	6	8	10	16	70	83	11	8
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	4	9	12	19	44	64	68	17	13
77076	POST OFFICE FALCONBRIDGE	2	1	2	3	4	6	7	7	4	1

TABLE A-19 MANGANESE (Mn) STATISTICS (1984)

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RUN DATE
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YEAR - 1984 POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	34	34	40	53	68	92	135	138	59	54	0
12005	7730 RIVERSIDE DR E WINDSOR	52	10	14	19	34	55	207	500	35	16	0
12008	467 UNIVERSITY AV W WINDSOR	344	17	32	47	69	104	185	368	56	41	0
12010	SEWAGE STN, MANNING RD WINDSOR	32	1	10	14	19	28	44	46	15	7	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	58	16	33	59	165	431	745	832	153	71	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	47	31	45	64	110	185	270	271	87	69	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	9	13	20	26	49	106	106	25	16	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	332	1	8	12	18	26	47	509	15	7	0
14030	RR1 (W OF HOUSE) CORUNNA	55	1	8	12	18	26	49	52	14	8	0
14031	RR1 (W OF BARN) MOORETOWN	50	1	8	11	17	41	51	52	16	8	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	1	9	17	26	44	109	140	23	10	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	53	11	19	28	37	61	96	97	33	24	0
15009	LONGWOODS CONSERVATION AUTHORITY	73	1	9	14	23	39	145	216	22	10	0
22071	EXPERIMENTAL FARM SIMCOE	56	7	12	20	29	36	239	1040	40	15	0
26029	EDNA/FREDERICK STS KITCHENER	58	16	25	37	46	67	132	143	40	33	0
27008	71 KING ST ST CATHARINES	57	20	34	40	52	77	150	160	47	40	0
29001	HUGHSON/HUNTER HAMILTON	57	42	59	83	127	413	784	834	153	100	0
29008	NORTH PARK HAMILTON	109	54	144	228	326	582	899	921	274	196	0
29011	BURLINGTON/LEEDS HAMILTON	59	151	278	347	483	753	1474	1480	431	344	0
29012	BURLINGTON/WELLINGTON HAMILTON	57	51	73	112	173	286	520	671	150	116	0
29017	CHATHAM/FRID HAMILTON	58	38	75	117	177	338	688	774	162	113	0
29025	BARTON/WENTWORTH HAMILTON	131	40	74	140	236	830	1360	2190	270	152	0
29067	450 HUGHSON ST N HAMILTON	56	27	45	64	116	243	555	590	110	73	0
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	21	32	51	81	245	602	684	104	62	0
31058	MOSLEY/LESLIE STS TORONTO	347	18	31	42	60	107	179	306	53	39	0
31064	17 BERKSHIRE AV TORONTO	246	14	26	36	54	80	128	240	43	28	0

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YEAR - 1984 POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
31104	26 BREADALBANE TORONTO	357	15	24	34	45	64	115	213	38	26	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	94	1	15	22	30	66	122	144	29	13	0
31123	26 BREADALBANE TORONTO	71	11	20	27	42	67	85	87	35	24	0
33003	LAWRENCE/KENNEDY SCARBORO	118	13	28	38	45	77	149	178	42	28	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	2	18	28	42	55	96	136	31	18	0
34007	STADACONA/HWY 401 NORTH YORK	110	15	31	43	54	78	140	175	46	35	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	13	20	27	36	57	113	127	33	25	0
35033	EVANS/ARNOLD AV ETOBICOKE	120	18	31	43	58	81	112	164	47	34	0
35037	3050 LAKESHORE BLVD W ETOBICOKE	340	14	25	33	45	65	106	147	37	26	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	23	36	50	92	206	337	1620	99	59	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	92	1	18	27	40	57	115	290	33	17	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	328	11	18	27	37	53	113	252	32	23	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	97	1	16	30	41	70	154	228	36	18	0
45060	HOPKINS ST S (LASCO) WHITBY	37	17	37	126	274	835	2858	2920	364	117	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	22	30	44	59	89	148	171	51	43	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	1	22	34	52	91	113	113	43	20	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	103	1	14	22	30	46	63	79	23	9	0
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	46	6	7	11	16	23	58	87	14	9	0
54013	POST OFFICE BLDG BELLEVILLE	36	7	15	21	30	54	211	295	34	17	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	12	15	22	31	91	292	409	44	25	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	114	1	14	19	26	38	103	162	22	11	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	4	26	39	51	107	182	186	49	25	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	55	7	15	27	34	55	88	95	29	18	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	129	220	361	634	1300	1939	2100	543	332	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	1	32	49	80	144	194	199	64	29	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	30	62	131	175	420	1106	1130	174	101	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

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YEAR - 1984 POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	2	20	32	39	52	103	126	33	18	0
75010	OPP STN NORTH BAY	47	1	10	14	22	33	42	42	16	8	0
77016	WATER TANK, ASH ST SUDBURY	84	1	1	10	17	32	84	125	15	3	0
77026	19 LISGAR ST SUDBURY	36	1	10	12	16	37	134	184	21	7	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	1	13	18	28	57	171	238	29	13	0

TABLE A-20 NICKEL (Ni) STATISTICS (1984)

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RUN DATE
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YEAR - 1984 POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	34	1	1	3	4	7	8	8	3	1	0
12005	7730 RIVERSIDE DR E WINDSOR	49	1	1	3	5	9	25	36	4	2	0
12008	467 UNIVERSITY AV W WINDSOR	343	1	1	5	7	13	32	234	7	2	0
12010	SEWAGE STN, MANNING RD WINDSOR	27	1	1	3	5	8	61	105	7	1	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	53	1	3	5	8	15	25	31	7	3	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	47	1	1	5	6	11	19	23	5	2	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	1	1	5	9	12	20	25	6	2	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	322	1	3	4	7	12	32	54	6	3	0
14030	RR1 (N OF HOUSE) CORUNNA	51	1	2	3	4	8	33	46	4	2	0
14031	RR1 (N OF BARN) MOORETOWN	50	1	2	3	4	6	29	39	4	2	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	1	1	2	4	11	33	37	5	1	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	48	1	1	1	3	6	13	18	2	1	0
15009	LONGWOODS CONSERVATION AUTHORITY	62	1	1	2	3	9	313	555	15	1	0
22071	EXPERIMENTAL FARM SIMCOE	56	1	1	1	3	5	21	36	3	1	0
26029	EDNA/FREDERICK STS KITCHENER	58	1	1	2	3	6	12	12	3	1	0
27008	71 KING ST ST CATHARINES	57	1	1	3	4	8	13	16	3	1	0
27030	KILLALY E/JAMES ST PORT COLBORNE	51	13	30	54	140	378	815	904	142	67	0
27047	DAVIS/FRAZER PORT COLBORNE	55	19	30	49	89	668	1992	2400	217	71	1
29001	HUGHSON/HUNTER HAMILTON	57	3	5	7	9	20	44	49	9	6	0
29008	NORTH PARK HAMILTON	109	1	5	9	12	25	52	68	11	5	0
29011	BURLINGTON/LEEDS HAMILTON	59	3	5	8	11	15	28	34	9	6	0
29012	BURLINGTON/WELLINGTON HAMILTON	57	1	3	5	8	14	68	149	9	3	0
29017	CHATHAM/FRID HAMILTON	58	3	6	8	10	26	58	66	11	7	0
29025	BARTON/WENTWORTH HAMILTON	130	1	5	8	11	21	37	57	10	6	0
29067	450 HUGHSON ST N HAMILTON	52	2	5	7	10	15	24	31	8	6	0
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	1	1	2	5	11	25	30	4	2	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1984 POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
31058	MOSLEY/LESLIE STS TORONTO	332	1	1	4	7	12	20	26	5	2	0
31064	17 BERKSHIRE AV TORONTO	241	1	1	3	5	8	17	43	3	1	0
31104	26 BREADALBANE TORONTO	320	1	1	4	4	9	18	74	4	1	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	91	1	1	6	12	32	239	261	17	3	0
31123	26 BREADALBANE TORONTO	21	1	1	1	5	8	19	19	3	1	0
33003	LAWRENCE/KENNEDY SCARBORO	117	1	1	6	11	17	24	26	7	3	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	1	1	4	10	15	24	25	6	2	0
34007	STADACONA/HWY 401 NORTH YORK	110	1	1	1	4	8	23	27	3	1	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	1	1	3	5	13	22	27	4	1	0
35033	EVANS/ARNOLD AV ETOBICOKE	118	1	1	4	7	11	19	51	5	2	0
35037	3050 LAKESHORE BLVD W ETOBICOKE	328	1	1	6	11	20	191	273	12	3	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	1	1	4	8	13	15	49	6	2	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	92	1	1	1	4	6	7	11	2	1	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	319	1	2	2	3	6	10	26	3	2	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	98	1	1	1	4	6	9	10	2	1	0
45060	HOPKINS ST S (LASCO) WHITBY	37	1	1	1	6	12	36	36	5	1	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	1	1	1	1	8	294	294	28	1	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	1	1	1	1	25	296	296	28	1	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	103	1	1	4	5	13	16	18	4	1	0
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	46	1	1	1	2	3	4	4	1	1	0
54013	POST OFFICE BLDG BELLEVILLE	33	1	3	4	6	9	21	29	5	3	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	2	3	4	6	9	28	36	5	4	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	113	1	1	1	4	4	17	143	3	1	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	1	1	1	2	3	11	15	1	0	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	55	1	1	2	4	25	27	28	7	2	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	1	1	5	6	9	328	330	22	3	0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

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YEAR - 1984 POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	1	1	4	8	10	244	316	14	2	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	1	1	1	6	10	34	38	4	1	0
72077	MINISTRY OF HEALTH BLDG TIMMINS	43	1	1	1	4	16	48	77	6	1	0
75010	OPP STN NORTH BAY	46	1	1	1	3	9	43	44	4	1	0
77016	WATER TANK, ASH ST SUDBURY	79	9	15	24	61	154	429	530	65	32	0
77026	19 LISGAR ST SUDBURY	36	10	21	34	51	185	715	1010	86	35	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	48	8	46	105	178	333	976	1520	157	69	0
77076	POST OFFICE FALCONBRIDGE	2	10	16	27	43	70	87	89	49	27	0

TABLE A-21 VANADIUM (V) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
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YEAR - 1984 POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	34	1	1	3	9	9	17	21	5	1	0
12005	7730 RIVERSIDE DR E WINDSOR	52	1	1	1	9	11	17	18	4	1	0
12008	467 UNIVERSITY AV W WINDSOR	343	1	1	1	9	10	30	138	5	1	0
12010	SEWAGE STN, MANNING RD WINDSOR	32	1	1	1	9	9	22	32	4	1	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	58	1	1	1	9	12	15	16	4	1	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	48	1	1	1	9	9	16	21	4	1	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	1	1	1	5	8	11	11	3	1	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	332	1	1	5	7	22	61	79	8	2	0
14030	RR1 (W OF HOUSE) CORUNNA	55	1	1	1	5	6	31	60	3	1	0
14031	RR1 (W OF BARN) MOORETOWN	50	1	1	1	5	6	20	26	3	1	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	1	1	5	8	24	86	100	10	2	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	53	1	1	1	9	9	12	13	3	1	0
15009	LONGWOODS CONSERVATION AUTHORITY	73	1	1	1	5	6	13	19	2	1	0
22071	EXPERIMENTAL FARM SIMCOE	56	1	1	1	1	7	20	35	2	1	0
26029	EDNA/FREDERICK STS KITCHENER	58	1	1	1	6	11	15	20	4	1	0
27008	71 KING ST ST CATHARINES	57	1	1	2	5	13	36	37	5	1	0
29001	HUGHSON/HUNTER HAMILTON	57	1	5	8	11	16	36	39	9	4	0
29008	NORTH PARK HAMILTON	109	1	1	7	11	23	43	47	9	2	0
29011	BURLINGTON/LEEDS HAMILTON	59	1	6	8	13	18	32	38	10	5	0
29012	BURLINGTON/WELLINGTON HAMILTON	57	1	3	7	10	15	42	50	8	3	0
29017	CHATHAM/FRID HAMILTON	58	1	1	8	11	19	36	42	8	2	0
29025	BARTON/WENTWORTH HAMILTON	131	1	6	8	13	18	35	46	10	5	0
29067	450 HUGHSON ST N HAMILTON	56	1	1	5	9	13	19	21	6	2	0
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	1	1	6	8	14	27	31	6	2	0
31058	MOSLEY/LESLIE STS TORONTO	346	1	1	1	9	12	28	50	5	1	0
31064	17 BERKSHIRE AV TORONTO	246	1	1	1	1	9	19	25	3	1	0

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YEAR - 1984 POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
31104	26 BREADALBANE TORONTO	357	1	1	1	9	11	50	164	4	1	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	93	1	1	1	9	13	21	22	4	1	0
31123	26 BREADALBANE TORONTO	21	1	1	1	1	10	13	13	2	0	0
33003	LAWRENCE/KENNEDY SCARBORO	118	1	1	1	9	10	100	206	7	1	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	1	1	1	1	9	23	51	3	1	0
34007	STADACONA/HWY 401 NORTH YORK	110	1	1	1	2	9	15	15	3	1	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	1	1	1	1	9	15	16	3	1	0
35033	EVANS/ARNOLD AV ETOBICOKE	119	1	1	1	2	9	14	17	3	1	0
35037	3050 LAKESHORE BLVD W ETOBICOKE	340	1	1	1	1	9	16	26	3	1	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	1	1	1	9	10	98	132	6	1	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	92	1	1	1	1	10	24	114	4	1	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	328	1	1	5	5	9	51	78	5	2	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	97	1	1	1	1	9	114	221	6	1	0
45060	HOPKINS ST S (LASCO) WHITBY	37	1	1	1	1	3	11	11	1	0	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	1	1	1	1	1	11	13	1	0	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	1	1	1	1	12	17	19	2	0	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	103	1	1	1	1	9	18	19	2	0	0
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	46	1	1	1	5	7	20	21	3	1	0
54013	POST OFFICE BLDG BELLEVILLE	36	1	1	1	1	6	11	11	2	0	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	1	6	7	9	16	52	84	9	4	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	114	1	1	1	9	9	14	15	4	1	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	1	1	1	6	9	11	12	3	1	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	55	1	1	1	6	8	12	13	3	1	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	1	1	1	9	17	75	91	8	1	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	1	1	1	5	9	97	114	7	1	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	1	1	1	1	9	26	45	3	1	0

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	1	1	1	1	9	13	16	2	0	0
75010	OPP STN NORTH BAY	47	1	1	1	9	10	37	85	5	1	0
77016	WATER TANK, ASH ST SUDBURY	84	1	1	1	1	9	40	152	5	1	0
77026	19 LISGAR ST SUDBURY	36	1	1	1	9	10	23	33	5	1	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	1	1	1	1	10	14	15	3	1	0
77076	POST OFFICE FALCONBRIDGE	2	1	1	1	1	1	1	0	0	0	0

TABLE A-22 NITRATE (NO_3) STATISTICS (1984)

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YEAR - 1984 POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
10015	PUC BLDG, 64 WEST ST GODERICH	57	6	18	25	35	76	108	132	33	22
12002	CITY HALL, 444 WINDSOR AV WINDSOR	57	15	26	40	51	72	93	108	41	35
12005	7730 RIVERSIDE DR E WINDSOR	53	13	24	34	52	74	91	92	40	33
12008	467 UNIVERSITY AV W WINDSOR	344	15	27	40	54	85	120	174	45	37
12009	9725 RIVERSIDE DR E LITTLE RIVER	56	15	23	32	50	63	82	89	37	32
12010	SEWAGE STN, MANNING RD WINDSOR	32	14	18	22	33	45	97	112	29	25
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	47	24	35	51	72	101	137	143	57	44
12032	MORTON DOCK, BEDFORD/OJIBWAY WINDSOR	18	23	40	44	64	78	87	88	51	45
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	14	27	38	47	75	102	103	42	35
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	332	7	15	25	39	65	144	162	32	23
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	8	13	28	41	71	117	158	35	24
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	53	11	25	39	63	82	158	182	47	36
15003	362 DUNDAS ST LONDON	57	10	20	28	50	76	117	142	39	29
22071	EXPERIMENTAL FARM SIMCOE	56	10	23	39	52	66	94	103	39	31
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	54	11	19	27	35	60	97	99	33	26
26029	EDNA/FREDERICK STS KITCHENER	58	13	27	38	55	82	119	126	43	33
27008	71 KING ST ST CATHARINES	57	16	29	35	49	81	145	155	44	35
27037	NORTH/GENEVA ST ST CATHARINES	53	12	21	27	36	69	131	158	35	26
27056	ALLENDALE AV NIAGARA FALLS	47	15	22	28	37	57	70	70	33	28
28025	FARQUHAR/WYNDHAM ST GUELPH	57	12	20	31	44	64	101	117	35	28
29001	HUGHSON/HUNTER HAMILTON	57	19	33	44	56	104	163	166	52	42
29008	NORTH PARK HAMILTON	108	22	34	48	71	118	271	315	64	49
29011	BURLINGTON/LEEDS HAMILTON	59	15	26	38	56	83	188	196	47	36
29012	BURLINGTON/WELLINGTON HAMILTON	57	19	30	43	58	88	159	180	50	41
29017	CHATHAM/FRID HAMILTON	58	18	27	40	58	102	176	181	51	40
29025	BARTON/WENTWORTH HAMILTON	131	17	26	42	55	85	169	281	49	38

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	13	22	31	47	77	124	143	40	32
29087	405 CUMBERLAND AV HAMILTON	55	12	23	29	41	69	117	158	37	30
31104	26 BREADALBANE TORONTO	357	14	25	37	52	80	138	169	44	35
31105	SHERBOURNE/WILTON STS TORONTO	116	19	30	45	69	109	177	290	58	46
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	89	13	22	35	48	79	105	123	41	32
31123	26 BREADALBANE TORONTO	21	5	13	17	20	24	52	54	18	12
33003	LAWRENCE/KENNEDY SCARBORO	118	15	28	40	52	87	117	140	45	36
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	108	14	23	30	43	75	104	141	37	30
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	13	24	34	46	80	107	108	40	33
34007	STADACONA/HWY 401 NORTH YORK	110	11	21	32	43	75	117	333	39	29
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	11	22	30	44	73	108	111	37	29
35005	QUEENSWAY HOSPITAL ETOBICOKE	118	13	23	33	47	93	126	144	42	31
35033	EVANS/ARNOLD AV ETOBICOKE	120	15	29	38	59	101	132	146	48	37
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	15	25	39	57	81	129	139	44	35
44015	BRONTE RD/WOBURN CRES OAKVILLE	91	11	22	31	47	80	135	140	40	32
45001	FIRE HALL, BAYLY/BROCK PICKERING	328	9	17	25	40	60	106	144	32	24
45025	PS, RITSON RD/OLIVE AV OSHAWA	116	15	25	34	53	84	125	142	43	35
45060	HOPKINS ST S (LASCO) WHITBY	38	13	19	24	53	103	139	143	42	31
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	15	25	40	62	99	138	139	49	38
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	13	24	48	60	89	118	123	49	38
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	115	13	26	36	49	90	136	156	43	33
47019	POST OFFICE, 17-25 PETER ST S ORILLIA	55	5	11	17	32	57	99	119	26	16
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	102	7	13	22	37	68	117	118	30	21
48002	HWY47/E OF HWY48 STOUFFVILLE	114	11	19	26	43	68	106	109	34	26
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	46	4	9	15	25	35	104	104	21	14
54013	POST OFFICE BLDG BELLEVILLE	36	12	19	24	33	68	90	90	33	27

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

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YEAR - 1984 POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
56006	4 MONTREAL RD CORNWALL	51	8	16	22	30	65	101	102	31	23
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	11	16	24	29	68	116	130	31	24
58027	51 SHUTER ST PORT HOPE	42	19	36	53	60	71	120	147	50	43
58041	FILT PLT, MARSH ST PORT HOPE	64	9	24	43	58	70	105	111	41	32
58042	CAN TIRE, QUEEN ST PORT HOPE	70	7	17	28	43	77	137	145	37	25
59006	CITY HALL, 500 GEORGE ST PETERBORO	112	8	14	21	34	58	116	126	29	21
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	3	7	11	15	25	103	106	16	9
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	56	2	5	8	14	24	75	78	14	8
63040	435 JAMES ST S THUNDER BAY	53	2	5	8	12	18	65	66	11	8
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	5	8	11	17	26	69	82	16	11
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	5	9	11	19	25	74	86	16	12
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	3	7	11	17	26	53	86	14	9
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	3	5	7	9	12	23	24	8	6
75010	OPP STN NORTH BAY	47	3	8	11	16	36	80	91	18	11
77016	WATER TANK, ASH ST SUDBURY	84	3	6	9	15	34	71	75	15	9
77026	19 LISGAR ST SUDBURY	36	4	6	9	13	30	68	85	14	10
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	4	7	11	16	33	68	72	16	11
77076	POST OFFICE FALCONBRIDGE	2	3	3	4	4	5	5	5	4	4

TABLE A-23 SULPHATE (SO_4) STATISTICS (1984)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

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YEAR - 1984 POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
10015	PUC BLDG, 64 WEST ST GODERICH	57	30	50	80	100	143	209	228	83	70
12002	CITY HALL, 444 WINDSOR AV WINDSOR	57	55	67	79	101	164	235	255	95	86
12005	7730 RIVERSIDE DR E WINDSOR	53	62	69	76	89	155	209	217	93	87
12008	467 UNIVERSITY AV W WINDSOR	332	45	60	75	104	161	223	286	89	78
12009	9725 RIVERSIDE DR E LITTLE RIVER	56	55	60	71	89	144	212	251	87	80
12010	SEWAGE STN, MANNING RD WINDSOR	32	50	62	74	99	142	229	246	91	82
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	47	73	86	106	143	243	396	406	137	120
12032	MORTON DOCK, BEDFORD/OJIBWAY WINDSOR	18	85	96	103	110	135	198	209	109	106
13003	POST OFFICE, 10 CENTRE ST CHATHAM	48	47	61	70	81	121	187	202	80	74
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	320	36	51	67	93	128	200	335	78	68
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	37	48	62	107	144	189	199	80	69
15001	MRN FAIR GROUNDS, KING/RECTORY LONDON	53	49	66	79	114	164	238	269	98	87
15003	362 DUNDAS ST LONDON	57	49	68	90	121	174	244	257	102	90
22071	EXPERIMENTAL FARM SIMCOE	56	55	67	84	116	175	267	280	103	90
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	54	35	56	83	108	172	243	285	91	75
26029	EDNA/FREDERICK STS KITCHENER	58	39	58	80	103	126	231	254	87	77
27008	71 KING ST ST CATHARINES	57	42	52	87	117	152	319	327	95	81
27037	NORTH/GENEVA ST ST CATHARINES	53	41	50	82	107	133	294	312	89	77
27056	ALLENDALE AV NIAGARA FALLS	47	44	62	80	113	160	301	327	98	84
28025	FARQUHAR/WYNDHAM ST GUELPH	57	36	45	65	88	121	205	212	76	66
29001	HUGHSON/HUNTER HAMILTON	57	54	74	103	134	237	377	402	127	107
29008	NORTH PARK HAMILTON	108	63	104	133	174	252	353	362	148	130
29011	BURLINGTON/LEEDS HAMILTON	59	69	85	118	154	220	317	338	132	117
29012	BURLINGTON/WELLINGTON HAMILTON	57	53	69	87	136	169	336	364	110	96
29017	CHATHAM/FRID HAMILTON	58	64	79	106	138	206	306	387	123	110
29025	BARTON/WENTWORTH HAMILTON	129	60	84	108	138	196	349	368	122	109

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YEAR - 1984 POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
29085	UPPER WELLINGTON/INVERNESS HAMILTON	58	45	60	76	113	182	257	285	98	84
29087	405 CUMBERLAND AV HAMILTON	55	51	65	75	109	163	284	303	99	88
31104	26 BREADALBANE TORONTO	357	42	61	77	105	151	291	318	92	80
31105	SHERBOURNE/WILTON STS TORONTO	116	58	73	87	128	206	456	533	116	101
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	89	53	64	79	92	125	188	202	85	79
31123	26 BREADALBANE TORONTO	21	23	33	47	57	126	204	224	64	51
33003	LAWRENCE/KENNEDY SCARBORO	118	47	61	77	105	157	296	377	95	82
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	108	43	51	71	89	130	275	291	81	71
34002	SC CTR, 770 DON MILLS RD NORTH YORK	113	41	57	68	87	137	261	283	82	73
34007	STADACONA/HWY 401 NORTH YORK	110	44	62	73	99	134	360	469	90	77
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	118	41	54	69	92	143	295	412	83	72
35005	QUEENSWAY HOSPITAL ETOBICOKE	118	46	64	77	100	131	261	342	90	79
35033	EVANS/ARNOLD AV ETOBICOKE	120	60	72	90	114	165	256	405	103	93
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	116	57	72	85	106	152	296	330	100	91
44015	BRONTE RD/WOBURN CRES OAKVILLE	91	51	70	87	114	172	335	424	103	92
45001	FIRE HALL, BAYLY/BROCK PICKERING	328	28	43	57	79	121	220	279	69	58
45025	PS, RITSON RD/OLIVE AV OSHAWA	116	47	64	81	104	146	317	385	95	84
45060	HOPKINS ST S (LASCO) WHITBY	38	53	62	76	99	136	152	154	84	79
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	43	58	85	102	142	190	427	507	126	107
46033	FIRE HALL, BRAMALEA RD BRAMALEA	37	42	106	126	146	190	324	369	127	108
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	115	46	63	77	106	135	321	440	92	81
47019	POST OFFICE, 17-25 PETER ST S ORILLIA	55	43	54	67	84	125	211	232	79	70
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	103	39	51	63	83	116	233	254	76	67
48002	HWY47/E OF HWY48 STOUFFVILLE	114	33	48	62	83	124	233	234	73	63
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	46	27	36	47	67	110	184	224	59	50
54013	POST OFFICE BLDG BELLEVILLE	36	38	52	63	73	123	242	290	75	65

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STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
56006	4 MONTREAL RD CORNWALL	51	48	59	74	99	140	205	221	87	79
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	51	58	74	96	117	174	228	243	104	94
58027	51 SHUTER ST PORT HOPE	42	35	49	68	91	147	218	242	83	71
58041	FILT PLT, MARSH ST PORT HOPE	64	39	52	68	98	158	295	296	89	73
58042	CAN TIRE, QUEEN ST PORT HOPE	70	29	43	62	97	164	237	239	82	65
59006	CITY HALL, 500 GEORGE ST PETERBORO	113	37	50	64	81	120	265	290	75	64
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	57	20	34	43	54	100	171	180	53	43
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	55	16	25	34	51	92	141	171	44	36
63040	435 JAMES ST S THUNDER BAY	53	19	25	38	54	92	136	149	47	39
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	51	45	79	128	159	252	307	354	134	112
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	52	49	56	66	79	105	138	139	72	68
71066	FARWELL PUMPHOUSE SAULT STE MARIE	102	34	45	59	78	120	183	186	67	59
72077	MINISTRY OF HEALTH BLDG TIMMINS	44	18	26	40	59	85	143	159	48	40
75010	OPP STN NORTH BAY	47	36	59	71	95	137	205	209	83	71
77016	WATER TANK, ASH ST SUDBURY	84	45	65	77	88	118	164	165	80	74
77026	19 LISGAR ST SUDBURY	36	51	68	79	104	125	190	205	88	80
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	39	71	91	113	148	193	201	94	83
77076	POST OFFICE FALCONBRIDGE	2	47	52	57	63	70	73	73	59	57

TABLE A-24 LOCATIONS OF CONTINUOUS (HOURLY) STATIONS

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
COLLEGE OF AGRIC TECH HURON PARK	10001	.	459200.	4793100.	17	5
AIRPORT, HWY 81 GRAND BEND	10024	.	441300.	4793300.	17	10
1.1 KM NNE KEITH GS WINDSOR	12001	.	327600.	4683900.	17	80
WRIGHT/WATER ST WINDSOR	12007	.	327100.	4682300.	17	4
467 UNIVERSITY AV W WINDSOR	12008	.	331600.	4686700.	17	8
FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR	12013	.	335800.	4687400.	17	6
COLLEGE/SOUTH ST WINDSOR	12016	.	329000.	4684100.	17	4
DORWIN PLAZA, DOUGALL AV WINDSOR	12047	.	332700.	4683400.	17	3
MALDEN RD (S LAURIER DR) WINDSOR	12048	.	329900.	4676600.	17	3
467 UNIVERSITY AV W BKUP WINDSOR	12108	.	328600.	4686700.	17	8
COLLEGE/PRINCE BKUP WINDSOR	12116	.	328900.	4683900.	17	4
MOE WATER PUMP STN, MIDDLE RD MERLIN	13021	.	399100.	4677600.	17	3
CON RD 14 (E OF RWY TRACKS) COURTRIGHT	14004	.	380800.	4734300.	17	4
HWY 40 (OPP LAMBTON GS) COURTRIGHT	14016	.	379300.	4739700.	17	4
CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	14064	.	385400.	4759600.	17	3
PUC BLDG, HWY 21 PETROLIA	14118	.	402700.	4756400.	17	5
PUB BLDG THEDFORD	14119	.	430300.	4779800.	17	5
CENTENNIAL PK, BKUP SARNIA	14164	.	385400.	4759600.	17	3
WRN FAIR GROUNDS, KING/RECTORY LONDON	15001	.	481800.	4759500.	17	4
LONGWOODS CONSERVATION AUTHORITY	15009	.	460700.	4747700.	17	2
PUC BLDG PARKHILL	15013	.	444800.	4779300.	17	5
ST ANTHONY'S SS, HWY2 BEACHVILLE	17006	.	513200.	4769600.	17	6
CONCESSION RD 2 LOT A TIVERTON	18007	.	454100.	4905300.	17	4
BRUCE GS WEATHER STN TIVERTON	18013	.	453700.	4909700.	17	10
EXPERIMENTAL FARM SIMCOE	22071	.	559700.	4744900.	17	4
CHEAPSIDE RD (3 KM S OF HWY 3) NANTICOKE	22086	.	582100.	4747200.	17	5
TOWNLINE RD/CON 13 TOWNSEND	22091	.	570200.	4748600.	17	4
HYD MET TOWER (2 KM NE JARVIS) JARVIS	22883	.	574300.	4749900.	17	10
PROVINCIAL PARK LONG POINT	22901	.	550200.	4713800.	17	4
WALPOLE S PS, SANDUSK RD NANTICOKE	22904	.	579400.	4743400.	17	4
RAINHAM RD (NEAR STELCO GATE) NANTICOKE	22907	.	575200.	4739800.	17	
EDNA/FREDERICK STS KITCHENER	26029	.	542700.	4811600.	17	5
TRANSFORMER STN, HWY 58 ALLANBURG	27011	.	647600.	4770200.	17	10
NORTH/GENEVA ST ST CATHARINES	27037	.	643100.	4780500.	17	6
NIAGARA FALLS RD/ONTARIO ST THOROLD	27042	.	646900.	4773900.	17	5
NIAGARA PUB WORKS,DOMINION RD FORT ERIE	27048	.	667000.	4750000.	17	2
HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA	27051	.	658000.	4769400.	17	16
185 QUEEN ST S THOROLD	27052	.	646000.	4774900.	17	1
STP GROUNDS, STANLEY AV NIAGARA FALLS	27055	.	655900.	4776300.	17	4
ALLENDALE AV NIAGARA FALLS	27056	.	655700.	4771800.	17	5

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
NORTH/GENEVA ST API BKUP ST CATHARINES	27137	.	643100.	4780500.	17	6
ALLENDALE AV BACKUP NIAGARA FALLS	27156	.	655700.	4771800.	17	5
FARQUHAR/WYNDHAM ST GUELPH	28025	.	560900.	4821300.	17	4
HUGHSON/HUNTER HAMILTON	29001	.	591800.	4789400.	17	9
BARTON/WENTWORTH HAMILTON	29025	.	593900.	4790000.	17	4
BRAMPTON/WOODWARD HAMILTON	29026	.	599600.	4789500.	17	4
467 BEACH BLVD HAMILTON	29102	.	598900.	4791900.	17	4
BARTON/WENTWORTH API BKUP HAMILTON	29125	.	593700.	4790000.	17	4
ISLAND AIRPORT TORONTO	31025	.	629300.	4832000.	17	10
BRUCE PS, 51 LARCHMOUNT AV TORONTO	31045	.	634300.	4835400.	17	21
MISSION, 381 YONGE ST TORONTO	31049	.	630400.	4835100.	17	4
TECUMSETH/NIAGARA ST TORONTO	31085	.	628700.	4833000.	17	6
26 BREADALBANE BKUP TORONTO	31103	.	630200.	4835600.	17	15
26 BREADALBANE API TORONTO	31104	.	630200.	4835600.	17	15
SHERBOURNE/WILTON ST TORONTO	31105	.	631700.	4833800.	17	5
JUNCTION TRIANGLE, PERTH AV TORONTO	31120	.	624800.	4834400.	17	9
LAWRENCE/KENNEDY SCARB	33003	.	638900.	4845100.	17	4
MET BRANCH, SCARB BLUFFS SCARB	33019	.	642200.	4841100.	17	1
SC CTR, 770 CON MILLS RD NORTH YORK	34002	.	633800.	4841400.	17	17
STADACONA/HWY 401 NORTH YORK	34007	.	625900.	4843500.	17	2
ELMCREST RD ETOBICOKE	35003	.	613600.	4833800.	17	4
QUEENSWAY HOSPITAL ETOBICOKE	35005	.	615900.	4829300.	17	9
EVANS/ARNOLD AV ETOBICOKE	35033	.	619200.	4830200.	17	3
MOE LAB, RESOURCES RD ETOBICOKE	35050	.	617500.	4840500.	17	18
HWY 2/NORTH SHORE BLVD E BURLINGTON	44008	.	597200.	4796400.	17	17
BRONTE RD/WOBURN CRES OAKVILLE	44015	.	603100.	4805900.	17	5
RITSON RD/OLIVE AV OSHAWA	45025	.	672700.	4861800.	17	5
PUB SCHOOL, GREEN GLADE RD MISSISSAUGA	46100	.	612400.	4818700.	17	11
QUEENSWAY W/HURONTARIO ST MISSISSAUGA	46110	.	612200.	4824900.	17	5
M OF A, 509 VICTORIA ST E ALLISTON	47035	.	591800.	4889800.	17	4
ARMOURY BLDG PARK/PARKSIDE ST BARRIE	47042	.	503800.	4915700.	17	12
TRAILER/MTC YARD #9, HWY 47 STOUFFVILLE	48002	.	639100.	4869400.	17	5
HWY 117/PAINT LAKE RD DORSET	49010	.	662400.	5009600.	17	3
MCDONALD, RIDEAU/WURTENBURG ST OTTAWA	51001	.	447100.	5031200.	18	4
MEMORIAL PARK, BEDFORD/THIRD STS CORNWALL	56051	.	520800.	4984600.	18	4
861 SECOND ST W CORNWALL	56065	.	520000.	4984500.	18	9
SCHOOL, 435 SECOND ST W CORNWALL	56068	.	520500.	4984500.	18	6
BERRYS FEED MILL S MOUNTAIN VILLAGE	56071	.	464700.	4981800.	18	4
FILTRATION PLT, MARSH ST PORT HOPE	58031	.	716900.	4868800.	17	
CITY HALL, 500 GEORGE ST PETERBOROUGH	59006	.	713700.	4909500.	17	18

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
SEWAGE TREATMENT PLT BALVERTOWN	61014	.	448200.	5656100.	15	6
35 VAN HORNE AV DRYDEN	61027	.	611600.	5514300.	15	15
112 FOURTH ST N KENORA	61030	.	392900.	5514200.	15	10
CEMETERY COLONIZATION RD W FORT FRANCES	62032	.	469700.	5384100.	15	5
BOISE CASCADE, VICTORIA AV FORT FRANCES	62051	.	471000.	5383500.	15	5
262 CHURCH ST FORT FRANCES	62052	.	470800.	5383900.	15	8
HOSPITAL, 35 ALGOMA ST N THUNDER BAY	63022	.	335600.	5367200.	16	22
PENINSULA BLDG MARATHON	63034	.	545300.	5396000.	16	12
435 JAMES ST S THUNDER BAY	63040	.	330200.	5360700.	16	15
RECREATION CENTRE RED ROCK	63084	.	408000.	5421600.	16	7
ST. MARTIN SCHOOL TERRACE BAY	63090	.	492700.	5403400.	16	8
HAWKEYE LAKE	63100	.	317500.	5393100.	16	4
63090 BKUP TERRACE BAY	63190	.	492700.	5403400.	16	8
MICHIPICOTEN AV LOT 38 TOWN OF MISSION	71057	.	662500.	5311000.	16	4
SIR JAMES DUNN PS WAWA	71058	.	666300.	5318000.	16	10
MID CANADA COMM TOWER ELLIOT LAKE	71060	.	371600.	5143000.	17	30
FARWELL PUMPHOUSE S.S.MARIE	71066	.	702400.	5156100.	16	4
OPP STN NORTH BAY	75010	.	619700.	5130500.	17	4
BURWASH SUDBURY AIRSHED	77009	.	514400.	5122800.	17	5
CALLUM SUDBURY AIRSHED	77010	.	527000.	5152500.	17	5
SKEAD SUDBURY AIRSHED	77012	.	518600.	5167800.	17	5
HANMER SUDBURY AIRSHED	77013	.	504100.	5166300.	17	5
RAYSIDE	77014	.	493400.	5161500.	17	5
ASH ST WATER TANK SUDBURY AIRSHED	77016	.	499400.	5148600.	17	3
CKNC-TV, 699 FROOD RD SUDBURY	77025	.	499500.	5150500.	17	10
GOVERNMENT RD/EDWARD ST CONISTON	77028	.	511800.	5148000.	17	5
POST OFFICE, SPRUCE/BARBER ST ESPANOLA	77029	.	440500.	5123500.	17	6
FALCONBRIDGE RD GARSON SUDBURY DISTRICT	77065	.	510900.	5155900.	17	5
BEAR ISLAND LAKE TEMAGAMI	77066	.	570400.	5202200.	17	5
KENNEDY ST NEW SUDBURY	77075	.	504400.	5152000.	17	5
LONG LAKE RD SUDBURY VILLA LOYOLA	77096	.	499200.	5138700.	17	4
77016 BKUP SUDBURY	77116	.	499400.	5148600.	17	3
77028 BKUP CONISTON	77128	.	511800.	5148000.	17	5
77075 BKUP NEW SUDBURY	77175	.	504400.	5152000.	17	5
MIKKOLA J HAMILTON SCHOOL WALDEN	77201	.	491500.	5140500.	17	5
HIGH FALLS	77202	.	458100.	5136500.	17	33
SCIENCE N SUDBURY	77203	.	500800.	5146100.	17	10

TABLE A-25 LOCATIONS OF PARTICULATE (DAILY) STATIONS

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-84, DAILY DATA

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
PUC BLDG, WEST ST GODERICH	10015	.	442500.	4843400.	17	6
309 THOMAS ST ST MARYS	11001	.	487900.	4788400.	17	30
CITY HALL, 444 WINDSOR AV WINDSOR	12002	.	332300.	4686700.	17	15
7730 RIVERSIDE DR E WINDSOR	12005	.	339500.	4689000.	17	10
BEACH LANE/HWY 18 LA SALLE	12006	.	326400.	4677800.	17	4
WRIGHT/WATER ST WINDSOR	12007	.	327100.	4682300.	17	4
467 UNIVERSITY AV W WINDSOR	12008	.	331600.	4686700.	17	8
9725 RIVERSIDE DR E LITTLE RIVER	12009	.	341300.	4688800.	17	2
SEWAGE STN, MANNING RD WINDSOR	12010	.	346000.	4687500.	17	1
FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR	12013	.	335800.	4687400.	17	6
SEWAGE STN, HWY 18/PROSPECT WINDSOR	12015	.	328300.	4683300.	17	5
COLLEGE/SOUTH ST WINDSOR	12016	.	329000.	4684100.	17	4
1802 GEORGE AV WINDSOR	12036	.	33[illegible]700.	4685800.	17	5
3225 CALIFORNIA ST WINDSOR	12037	.	33[illegible]700.	4681600.	17	4
2885 HOWARD AV WINDSOR	12038	.	334200.	4682600.	17	1
DOUGALL/E.C. ROW W WINDSOR	12039	.	333700.	4682100.	17	5
DORWIN PLAZA, DOUGALL AV WINDSOR	12047	.	332700.	4683400.	17	3
643 ALEXANDRINE WINDSOR	12049	.	334300.	4683200.	17	1
535 CHARLES ST WINDSOR	12050	.	334300.	4682700.	17	1
415 FRONT ST AMHERSTBURG	12053	.	325300.	4665700.	17	14
HWY 18/PROSPECT BKUP WINDSOR	12115	.	328300.	4683300.	17	1
POST OFFICE, 10 CENTRE ST CHATHAM	13003	.	402400.	4695200.	17	12
GENERAL HOSPITAL, 220 HITTON ST SARNIA	14001	.	386000.	4758700.	17	15
HWY 40 (OPP LAMBTON GS) COURTRIGHT	14016	.	379300.	4739700.	17	4
RR1 (W OF HOUSE) CORUNNA	14030	.	394900.	4748600.	17	1
RR1 (W OF BARN) MOORETOWN	14031	.	393800.	4746100.	17	1
SARNIA YACHT CLUB, POINT EDWARD SARNIA	14054	.	384600.	4761700.	17	5
ST CLAIR BLVD/HWY 40 CORUNNA	14059	.	381300.	4748100.	17	4
CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	14064	.	385400.	4759600.	17	3
DAVID/FRONT ST SARNIA	14151	.	385200.	4758800.	17	4
WRN FAIR GROUNDS, KING/RECTORY LONDON	15001	.	481800.	4759500.	17	4
362 DUNDAS ST LONDON	15003	.	480100.	4759000.	17	17
16 ALEXANDRIA ST ST THOMAS	15006	.	485600.	4736100.	17	6
1012 TALBOT ST ST THOMAS	15007	.	485700.	4736000.	17	9
EDGEWARE RD (NNW VARTA PLT) ST THOMAS	15008	.	487600.	4737900.	17	2
LONGWOODS CONSERVATION AUTHORITY	15009	.	460700.	4747700.	17	2
ST ANTHONY'S SS, HWY 2 BEACHVILLE	17006	.	513200.	4769600.	17	6
HWY 2 RR 2 (J SPRIEL PROP) INGERSOLL	17020	.	511800.	4767500.	17	2
OXFORD CTY RD 6 (HESSTON FARM) EMBRO	17021	.	510200.	4772200.	17	1
182 WATER ST WINGHAM	17022	.	474700.	4856100.	17	1

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
ST ANTHONY'S SS HWY 2 BEACHVILLE	17106	.	513200.	4769600.	17	5
HWY 2 RR 2 (J SPRIEL PROP) INGERSOLL	17120	.	511800.	4767500.	17	3
ST ANTHONY'S SS HWY 2 BEACHVILLE	17206	.	513200.	4769600.	17	5
ST ANTHONY'S SS HWY 2 BEACHVILLE	17306	.	513200.	4769600.	17	5
CONCESSION RD 2 LOT A TIVERTON	18007	.	454100.	4905300.	17	3
CONCESSION RD 4 LOT D TIVERTON	18008	.	456500.	4906300.	17	2
CONCESSION RD 6 LOT E TIVERTON	18009	.	457700.	4907700.	17	2
CONCESSION RD 8 LOT 6 TIVERTON	18010	.	459300.	4909400.	17	2
CONCESSION RD 10 LOT F TIVERTON	18011	.	460100.	4911200.	17	2
1.8 KM WSW BAIE DORE TIVERTON	18012	.	456200.	4910400.	17	2
369 LEOPOLD ST WINGHAM	18014	.	474700.	4859600.	17	1
EXPERIMENTAL FARM SIMCOE	22071	.	559700.	4744900.	17	4
CHEAPSIDE RD (3 KM S OF HWY 3) NANTICOKE	22086	.	582100.	4747200.	17	5
JARVIS COMMUNITY CENTRE, JAMES ST JARVIS	22087	.	572400.	4748100.	17	4
ST GEORGE/ALMA PORT DOVER	22090	.	564300.	4737700.	17	5
TOWNLINE RD/CON 13 TOWNSEND	22091	.	570200.	4748600.	17	4
RAINHAM RD/SANDUSK RD JARVIS	22092	.	579100.	4740700.	17	4
WALPOLE S PS, SANDUSK RD NANTICOKE	22904	.	579400.	4743400.	17	4
RAINHAM RD (NEAR STELCO GATE) NANTICOKE	22907	.	575200.	4739800.	17	
PEACOCK PROV PARK CONSERVATION AREA	22952	.	582200.	4838800.	17	2
HWY 59 BIG CREEK WILDLIFE RESERVE	22959	.	544900.	4716500.	17	2
MCKENZIE RD/H-N RD N JARVIS	22960	.	583900.	4760000.	17	2
NANTICOKE RD/WALPOLE CON 2 NANTICOKE	22961	.	575800.	4741200.	17	3
N 2 KM NANTICOKE GS NANTICOKE	22964	.	574500.	4742000.	17	4
HWY 6/NORFOLK CON 2 JARVIS	22965	.	569800.	4741300.	17	2
EDNA/FREDERICK STS KITCHENER	26029	.	542700.	4811600.	17	5
STANLEY/CHIPPAWA PKWY CHIPPAWA	27014	.	656200.	4767900.	17	5
KILLALY E/JAMES ST PORT COLBORNE	27030	.	644400.	4750100.	17	5
NORTH/GENEVA ST ST CATHARINES	27037	.	643100.	4780500.	17	6
337 ALBERTA/DEVON ST WELLAND	27045	.	643300.	4758700.	17	1
DAVIS/FRAZER PORT COLBORNE	27047	.	643500.	4749700.	17	3
HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA	27051	.	658000.	4769400.	17	16
185 QUEEN ST S THOROLD	27052	.	646000.	4774900.	17	1
FIRST AV/BRIDGE ST NIAGARA FALLS	27053	.	656600.	4774500.	17	1
STP GROUNDS, STANLEY AV NIAGARA FALLS	27055	.	655900.	4776300.	17	4
ALLENDALE AV NIAGARA FALLS	27056	.	655700.	4771800.	17	5
188 EASTCHESTER AV ST CATHARINES	27059	.	645300.	4780600.	17	1
PETRIE ST/DUNKIRK RD ST CATHARINES	27060	.	465100.	4780900.	17	3
FARQUHAR/WYNDHAM ST GUELPH	28025	.	560900.	4821300.	17	4
HANLON EXPT/SPEED RIVER GUELPH	28027	.	559400.	4819000.	17	6

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
HUGHSON/HUNTER HAMILTON	29001	.	591800.	4789400.	17	9
KENILWORTH HAMILTON	29009	.	596700.	4788400.	17	6
BURLINGTON/LEEDS HAMILTON	29011	.	595400.	4790500.	17	5
BURLINGTON/WELLINGTON HAMILTON	29012	.	593100.	4791400.	17	7
CHATHAM/FRID HAMILTON	29017	.	589800.	4789600.	17	6
BARTON/WENTWORTH HAMILTON	29025	.	593900.	4790000.	17	4
450 HUGHSON ST N HAMILTON	29067	.	592500.	4791300.	17	5
UPPER WELLINGTON/INVERNESS HAMILTON	29085	.	592100.	4788000.	17	5
405 CUMBERLAND AV HAMILTON	29087	.	594600.	4788200.	17	4
BARTON/NASH RD HAMILTON	29089	.	600000.	4787900.	17	6
BAY/MAIN ST HAMILTON	29098	.	591300.	4789600.	17	23
467 BEACH BLVD HAMILTON	29102	.	598900.	4791900.	17	4
300 FIFTY RD WINONA	29108	.	610500.	4784700.	17	1
287 FIFTY RD WINONA	29109	.	610400.	4784700.	17	1
1479 HWY 8 WINONA	29110	.	610900.	4784500.	17	4
MAIN ST/W HWY 403 HAMILTON	29118	.	588700.	4789800.	17	3
MOSLEY/LESLIE STS TORONTO	31058	.	634600.	4835300.	17	5
17 BERKSHIRE AV TORONTO	31064	.	634500.	4835300.	17	1
FIRE HALL, 1285 DUFFERIN ST TORONTO	31079	.	625900.	4835900.	17	9
WORKS DEPT, 138 HAMILTON AV TORONTO	31082	.	632800.	4835500.	17	5
HAYDWELL MFG, 65 SAULTER ST TORONTO	31084	.	633300.	4835100.	17	15
TECUMSETH/NIAGARA ST TORONTO	31085	.	628700.	4833000.	17	6
26 BREADALBANE API TORONTO	31104	.	630200.	4835600.	17	15
SHERBOURNE/WILTON ST TORONTO	31105	.	631700.	4833800.	17	5
JUNCTION TRIANGLE, PERTH AV TORONTO	31120	.	624800.	4834400.	17	9
26 BREADALBANE TORONTO	31121	.	630200.	4835600.	17	15
26 BREADALBANE TORONTO	31122	.	630200.	4835600.	17	15
26 BREADALBANE TORONTO	31123	.	630200.	4835600.	17	15
26 BREADALBANE TORONTO	31124	.	630200.	4835600.	17	15
60 BATHURST ST TORONTO	31181	.	628800.	4833200.	17	6
30 INDUSTRIAL ST (K M SMITH) EAST YORK	32008	.	632300.	4840500.	17	6
LAWRENCE/KENNEDY SCARB	33003	.	638900.	4845100.	17	4
MET BRANCH, SCARB BLUFFS SCARB	33019	.	642200.	4841100.	17	1
CTR 770 DON MILLS RD NORTH YORK	34002	.	633800.	4841400.	17	17
ELMCREST RD ETOBICOKE	35003	.	613600.	4833800.	17	4
QUEENSWAY HOSPITAL ETOBICOKE	35005	.	615900.	4829300.	17	9
EVANS/ARNOLD AV ETOBICOKE	35033	.	619200.	4830200.	17	3
3050 LAKESHORE BLVD W ETOBICOKE	35037	.	620100.	4828500.	17	3
RADIATION LABS, RESOURCES RD TORONTO	35051	.	617200.	4840300.	17	11
HWY 2/NORTH SHORE BLVD E BURLINGTON	44008	.	597200.	4796400.	17	17

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
BRONTE RD/WOBURN CRES OAKVILLE	44015	.	603100.	4805900.	17	5
PICKERING FIRE HALL PICKERING	45001	.	655100.	4854800.	17	1
MCDONALD PS PICKERING	45003	.	655400.	4853800.	17	6
SEWAGE PLT, FRENCHMANS BAY PICKERING	45005	.	654300.	4852600.	17	1
SEWAGE PLT, LAKESHORE PK PICKERING	45006	.	660200.	4853800.	17	1
AJAX-PICKERING HOSP PICKERING	45007	.	659600.	4855500.	17	15
SEWAGE PLT, DUFFIN CREEK PICKERING	45008	.	656500.	4853300.	17	1
PUBLIC LIBRARY OSHAWA	45011	.	671400.	4862300.	17	7
RITSON RD/OLIVE AV OSHAWA	45025	.	672700.	4861800.	17	5
MISSISSAUGA PUBLIC LIBRARY MISSISSAUGA	46025	.	611500.	4825700.	17	9
BRAMALEA FIRE HALL BRAMALEA	46033	.	605300.	4839800.	17	3
2414 DIXIE RD MISSISSAUGA	46041	.	614700.	4828700.	17	5
2365 DIXIE RD MISSISSAUGA	46045	.	614800.	4828800.	17	5
2360 DIXIE RD MISSISSAUGA	46046	.	614700.	4828600.	17	12
QUEENSWAY W/HURONTARIO ST MISSISSAUGA	46110	.	612200.	4824900.	17	5
POST OFFICE, 17-25 PETER ST S ORILLIA	47019	.	625500.	4940600.	17	10
ARMOURY BLDG PARK/PARKSIDE ST BARRIE	47042	.	603800.	4915700.	17	12
TRAILER/MTC YARD #9, HWY47 STOUFFVILLE	48002	.	639100.	4869400.	17	5
POST OFFICE BLDG BELLEVILLE	54013	.	309500.	4892600.	18	
4 MONTREAL RD CORNWALL	56006	.	522300.	4984800.	18	9
MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	56051	.	520800.	4984600.	18	4
PUMPING STATION L'ORIGINAL	56095	.	523900.	5051400.	18	3
51 SHUTER ST PORT HOPE	58027	.	717700.	4869400.	17	4
FILT PLT, MARSH ST PORT HOPE	58041	.	716700.	4868800.	17	1
CAN TIRE, QUEEN ST PORT HOPE	58042	.	717100.	4869500.	17	1
GROVE PS, ERSKINE AV PETERBOROUGH	59003	.	712900.	4905600.	17	12
HYD BLDG, 913 CRAWFORD DR PETERBOROUGH	59004	.	712600.	4905200.	17	5
CITY HALL, 500 GEORGE ST PETERBOROUGH	59006	.	713700.	4909500.	17	18
MACHINERY CO, 45 MOUNT HOPE ST LINDSAY	59054	.	680900.	4914900.	17	6
UNION CARBIDE 150 COLBORNE ST E LINDSAY	59056	.	681300.	4914700.	17	1
WEATHER STN ATIKOKAN	62013	.	603000.	5400800.	15	1
CEMETERY COLONIZATION RD W FORT FRANCES	62032	.	469700.	5384100.	15	5
LEGION BLDG, 250 CHURCH ST FORT FRANCES	62035	.	470700.	5383900.	15	9
HOSP ARCHIBALD/ARTHUR STS THUNDER BAY	63005	.	333500.	5360800.	16	29
DAWSON CT ALGOMA ST N THUNDER BAY	63012	.	337200.	5368600.	16	9
HOSPITAL, 35 ALGOMA ST N THUNDER BAY	63022	.	335600.	5367200.	16	22
435 JAMES ST S THUNDER BAY	63040	.	330200.	5360700.	16	15
CAN-CAR BLDG, MONTREAL ST THUNDER BAY	63046	.	330000.	5358400.	16	3
TRNSIT MAINT BD, WILLIAM RD THUNDER BAY	63052	.	334500.	5364700.	16	9
CENTENNIAL DR (SEWAGE T PLT) LONGLAC	63070	.	534200.	5513500.	16	1

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
PUMPHOUSE, BONNEY ST S.S.MARIE	71042	.	701100.	5155500.	16	1
LAND RDG OFFICE, QUEEN ST S.S.MARIE	71049	.	704700.	5154300.	16	6
DENISON TOWNSITE ELLIOT LAKE	71053	.	376600.	5150400.	17	2
PORRIDGE LAKE SUBDIVISION ELLIOT LAKE	71062	.	375500.	5136500.	17	5
ST JOSEPHS HOSPITAL BLIND RIVER	71065	.	348800.	5116000.	17	12
FARWELL PUMPHOUSE S.S.MARIE	71066	.	702400.	5156100.	16	4
DUNLOP LAKE ELLIOT LAKE	71067	.	373100.	5148500.	17	2
MINISTRY OF HEALTH BLDG TIMMINS	72077	.	475500.	5368500.	17	5
OPP STN NORTH BAY	75010	.	619700.	5130500.	17	4
MOBIL MONITOR NE REGION	77000	.	0.	0.	17	
ASH ST WATER TANK SUDBURY	77016	.	499400.	5148600.	17	3
19 LISGAR ST SUDBURY	77026	.	500600.	5148500.	17	14
POST OFFICE, SPRUCE/BARBER ST ESPANOLA	77029	.	440500.	5123500.	17	6
PUMP HOUSE, NICKEL ST COPPER CLIFF	77070	.	495000.	5146200.	17	5
POST OFFICE FALCONBRIDGE	77076	.	514400.	5157700.	17	5
POST OFFICE, SPRUCE/BARBER ST ESPANOLA	77129	.	440500.	5123500.	17	5